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Calculator.

Subtiliſſimi Ricardi Suiſeth Anglici Calculationes nouiter emēdate atq₃ reuiſe.

Queſtio inſuper de reactione iuxta Ariſtotelis ſententiam ⁊ Cōmentatoris.

Bibliotheca J. Humphrij: āno 1605

¶ Victor Trincauellus Venetus phyſicus Chriſtophoro Arretino inter profeſſores medicae facultatis noſtra aetate facile Principi. S.

PLatonem/diuinum illum Ph̃m,atq3 in omni diſciplinarum genere celebratiſſimum (Doctor excellẽtiſſime) cũ iam mortis tẽpus inſtaret/eius rei maxime poenituiſſe fertur/q̃ filios non genuerit/naturaeq3 fuerit ingratus: quam q̃dem ſententiam du3 diutius aliquãdo animo reuoluerem/eidem ſtatim crimini eos obnoxios iudicaui: qui cum ipſi/tum in vnaquaq3 facultate/tum vel maxime in re litteraria non parum vtilitatis ex priorum maiorũq3 ſuorũ laboribus reportauerint: eoq3 deinde animo ſunt vt nolint ſumma ope niti/aliquid emoliri q̃ poſteris cõmodi atq3 emolumenti aliq̃d eſſet allaturu3. Saepe igitur cogitaui qua via huius ingratitudinis notam poſſem effugere: du3q3 diu anceps haeſitarem/relatum mihi eſt excellẽtiam tuam tuis diſcipulis legendas propoſuiſſe calculationes Suiſeth Anglici viri acutiſſimi/opus ſane perutile ad exercẽda exacuẽdaq3 iuuenum ingenia, rogaſſeq3 heredes olim Octauiani Scoti viros in arte libraria ſollertiſſimos atq3 diligẽtiſſimos/vt illud vellent imprimẽdu3 dare: me aũt non latebat id plurimis mendis ſcatere. Hoc igit̃ onus ſuſcipere decreui: vt ſcilz quo fieri poſſit emẽdatius imprimeretur: ſperans quidem hoc tibi non ingratum/ſtudioſiſq3 non inutile futurum: non ſum tamẽ ignarus plus me laboris q̃ honoris ex hac re cõſecuturum. Volui inſuper a tergo quedam noſtra prima rudimenta/primitiaſq3 noſtrorum ſtudioru3 annectere: quae hincinde ex varijs auctoribus tam priſcis q̃ recentioribus collegimus circa materiam de reactione: non quidem vt ob id velimus videri plus alijs ſapere, ſed potius quia tuum iudicium in hac re habere plurimũ cupio quod ſemper maximi feci/⁊ vt ſocios noſtros honeſto exercitij genere excitaremus. Vale igitur ſenex eruditiſſime/Victoremq3 tuum ea amicitia tibi deuinctu3/vel potius obſeruantia quae ex virtute ſolet prodire/ab eorum morſibus qui hoc noſtrum propoſitu3 damnare voluerint/tueri non ſis ingratum. Venetijs pridie kalendas Februarij.

¶ Tractatus qui hoc volumine continentur.

De intenſione ⁊ remiſſione.	Tractatus p̃mus
De difformibus.	2
De intenſione elementi habentis duas qualitates inequᷓ intenſas.	3
De intenſione mixtorum.	4
De raritate ⁊ denſitate.	5
De augmentatione.	6
De reactione.	7
De potentia rei.	8
De difficultate actionis.	9
De maximo ⁊ minimo.	10
De loco elementi.	11
De luminoſis.	12
De actione luminoſi.	13
De motu locali.	14
De medio non reſiſtente.	15
De inductione gradus ſummi.	16

¶ Queſtio de reactione iuxta ſententiam Ariſto. ⁊ Cõmentatoris.

¶ Incipit perutile ac ad oẽs ſciẽtias applicabi-
le calculationũ aureũ opus Ricardi Suiſeth
Anglici Doctoris ſubtiliſſimi.

PEnes quid
habeant intẽſio ⁊ re
miſſio q̃litatis atten
di plures ſunt poſi-
tiones. ¶ Pro quo
tñ p̄mõ eſt notandũ
ꝙ intẽſio põt duplr
accipi. Uno mõ pro
alteratione mediãte
qua q̃litas acquirit:
⁊ ſic loq̃ndo itẽn° eſt
mot°. Alio modo dr̃
itenſio qualitas me-
diãte qua aliqđ eſt intẽſuz: ſicut calidũ eſt intẽſuz mediã-
te caliditate: ⁊ ſic ꝓportionalr̃ de remiſſione dõm eſt. Sꝫ
de intẽſione ⁊ remiſſione 2° mõ dictis ad pñs ſit locutio.
p̄ᵃ põ ¶ Pria poſitio ponit ꝙ itẽſio cuiuſlibet q̃litatis attẽdit̃
penes appropinq̃tiõez ad ſũmũ ſeu ad gradũ itẽſiſſimuz
illius latitudinis: ⁊ remiſſio penes diſtãtiã a gradu ſũmo.
2ᵃ põ ¶ 2ᵃ poſitio ponit ꝙ intẽſio hꝫ attẽdi penes diſtãtiã a nõ
3ᵃ põ gradu: ⁊ remiſſio penes diſtãtiã a gradu intẽſiſſimo. ¶ 3ᵃ
poſitio dicit ꝙ itẽſio attẽdit̃ penes diſtãtiaz a nõ gradu: ⁊
remiſſio penes appropinquationez ad nõ gradum.
ↄ p̄ᵃᵐ Cõtra p̄ᵃᵐ põnez arguit̃ ſic. Ex illa ſeq̃t̃ ꝙ gradus ſũ-
mus ſit ĩfinite itẽſus. nã intẽdat̃ aliqua calidi-
tas vſq; ad ſũmũ: tũc 1ᵃ caliditas erit itẽſior aliqualr̃: ⁊ in
duplo ⁊ in quadruplo intẽſior: ⁊ ſic in ĩfinitũ: q2 aliqñ erit
ꝓpinqua gradui ſũmo: ⁊ in duplo ꝓpĩqor ⁊ in q̃druplo
ꝓpĩqor: ⁊ ſic in infinitũ: ⁊ ſic ꝓportionalr̃ ſicut ꝓpĩqor
erit gradui ſũmo ſm̃ illã poſitionẽ erit itẽſior. g̃ ĩfinite in-
tẽſa erit 1ᵃ caliditas ante finẽ hore: ⁊ in fine erit intẽſior q̃3
vnq̃3 ante finez. g̃ caliditas ſũma erit ĩfinite intẽſa qđ fuit
2ᵐ ꝓbãdũ. ¶ Itẽ ex iſta poſitione ſequit̃ ꝙ nõ eſt aliqs gra-
dus induplo minus intẽſus q̃3 gradus medius illi° latitu-
dinis. ſ. toti° latitudinis calitatis. B ꝓbat̃ ſic. Nullus gra-
dus ꝑ in duplo plus diſtat a gradu ſũmo q̃3 gradus me-
dius toti° latitudinis diſtet: q2 non gradus ſolũ ꝑ induplo
plus diſtat a gradu ſũmo: q̃3 gradus medius inter ſũmuz
⁊ nõ gradũ: eo ꝙ mediũ eſt qđ equalr̃ diſtat ab extremis.
Cũ igit̃ nullus gradus per tãtũ diſtet a ſũmo ſic nõ gra-
dus diſtat ab eodẽ: ⁊ nõ gradus per induplo plus p̃ciſe di
ſtat a gradu ſũmo q̃3 diſtet gradus medius toti° latitudi-
nis caliditatis ab eodez gradu: ſeq̃t̃ ꝙ nullus gradus per
induplo plus diſtat a ſũmo q̃3 medius totius latitudinis.
g̃ nullius latitudinis gradus eſt in duplo minus itẽſus q̃3
eſt gradus medius toti° latitudis caliditatis. ɔ̃ñs eſt fal-
ſum: q2 aliqs gradus eſt aliqualr̃ intẽſus: ⁊ aliqs in duplo
minus itẽſus ⁊ in q̃druplo: ⁊ ſic in infinitũ: ſic̃ aliqua quã-
3ᵐ titas eſt aliquãta: ⁊ aliqua in duplo minor: ⁊ ſic in ĩfinituz.
igit̃ poſitio falſa. ¶ Itẽ ſequit̃ ꝙ q̃libet gradus mot° eſt
infiᵗᵉ remiſſus: q2 oĩs gradus mot° per infinitã diſtãtiã di-
ſtat a gradu ĩfinito mot°. Cum g̃ nullus ſit gradus intẽſiſ-
ſimus citra gradũ ĩfinitũ mot°: ſeq̃t̃ ꝙ q̃libet gradus mo-
tus per ĩfinituz diſtat a gradu ſũmo ſue latitudis: ſed ɔ̃ñs
4ᵐ eſt falſum. g̃ ⁊ añs. ¶ Itẽ ex iſta põne ſeq̃t̃ ꝙ q̃libet cali-
ditas citra ſũma ſit infiᵗᵉ remiſſa: q2 vel eſt gradus ſũmus
infinite intẽſus: vel finite intẽſus. Si ĩfinite intẽſus. g̃ oĩs
gradus citra ſũmũ ꝑ ĩfinitũ diſtat a gradu ſũmo. ɔ̃ñtia te-
net per B ꝙ oĩs gradus citra ſũmũ eſt finit°: ⁊ oĩs gradus
finit° per ĩfinitũ diſtat a gradu ĩfinito. Cũ g̃ penes appro-
pinquatiõez gradui ſũmo iuxta illã põnẽ habeat itẽſio ca
liditatis attẽdi: ſeq̃t̃ ꝙ oĩs gradus calitatis eſt in infiᵐ re-
miſſus. Si aũt finite itẽſus ſit gradus ſũmus: tũc ſit. a. ali-
quis gradus remiſſus: ⁊ arguit̃ ſic. In ĩfinitum ꝓpinquior
eſt aliqs gradus gradui ſũmo q̃3. a. q2 ꝑ infinitũ modicuz
diſtat aliqs gradus a gradu ſũmo: vt pꝫ. g̃ ſi penes appro-
pinq̃tionẽ gradui ſũmo itẽn° calitatꝫ vel gradus attẽdit̃:
ſeq̃t̃ ꝙ in ĩfinitũ in intẽſior eſt aliqs gradus. a. gradu. g̃ cũ
q̃libet gradus citra ſũmũ: ⁊ etiã gradus ſũmus ſit ſolũ fi-
nite intẽſus: ſeq̃t̃ ꝙ. a. gradus ſit in ĩfinitũ remiſſus: ſꝫ iſta
ɔ̃cluſio eſt falſa. g̃ poſitio. ꝙ 1ᵃ ɔ̃cluſio ſit falſa pꝫ: q2 ſi q̃li-
bet gradus foret ĩfinite remiſſus: nullus foret aliqualr̃ in-
tenſus: ⁊ ꝑ ɔ̃ñs nullus gradus foret alio itẽnᵒʳ: qđ eſt ĩpoſ-
ſibile. ¶ Itez ſeq̃t̃ iſta ɔ̃cluſio ꝙ. a. ⁊. b. incipiũt a nõ gra- 5ᵐ
du itẽdi: ⁊ ɔ̃tinue eq̃uelociter itendunt̃: ⁊ in fine erit vnũ
altero ĩfinite itẽſius. ꝓbat̃: q2 incipiat. a. caliditas intẽdi a
nõ gradu: ⁊ intẽdat̃ ad ſũmũ: ⁊ itẽdat̃. b. mot° a nõ gradu:
⁊ itẽdat̃ ɔ̃tinue eq̃uelociter cũ. a. tũc ſeq̃t̃ ɔ̃cluſio ꝙ. a. ⁊. b.
a nõ gradu incipiũt intẽdi: ⁊ ɔ̃tinue eq̃uelociter intẽdent̃:
vt ponit̃ in caſu. Et ꝙ in fine erit vnũ altero infiᵗᵉ itẽſius:
ꝓbat̃: q2 in fine erit. a. ſũmũ ⁊. b. in ĩfinitũ remiſſium: q2 ꝑ
infinitũ diſtabit a gradu ĩfinito. ergo in fine erit. a. gradus
in infinitũ intẽſior q̃3. b. ɔ̃ſequẽtia cũ antecedẽte ſatis pa
tet: ⁊ ɔ̃ſequẽs eſt falſum. g̃ poſitio falſa.

Ideo ponatur 2ᵃ poſitio: cõtra quaꝫ arguit̃ ſic. ↄ 2ᵃᵐ po-
Ex B ſeq̃t̃ ꝙ nullus gradus eſt ſitionẽ.
medio gradu in duplo remiſſior: q2 nullus gradus per in
duplo plus diſtat a ſummo: q̃3 gradus medius: vt pꝫ. ɔ̃ñs
eſt falſuꝫ: q2 aliqs gradus eſt alio in duplo remiſſior: ⁊ in
quadruplo: ⁊ ſic in ĩfinitũ: ſicut q̃ãtacũq; q̃ãtitate data:
eſt alia in duplo minor ⁊ alia in q̃druplo: ⁊ ſic in infinitũ.
ergo ⁊c̃. ¶ Itẽ ex iſta põne ſeq̃t̃ ꝙ aliqua ſunt equalr̃ in- 2ᵐ
tẽſa que nõ ſunt equalr̃ remiſſa: q2 caliditas ſũma ꝑ fini-
tũ tãtũ diſtat a nõ gradu. Capiat̃ igit̃ vnus mot°: qui per
tãtuꝫ diſtet a nõ gradu mot°: ſic̃ ipa caliditas ſũma diſtat
a nõ gradu calitatꝫ: tũc iſte mot° ⁊ iſta caliditas ſunt eque
intẽſa: q2 equalr̃ diſtãt a ſuis nõ gradib° ⁊ nõ ſunt equalr̃
remiſſa: q2 infinite modice remiſſa eſt aliq̃ caliditas citra
ſũmũ: ſꝫ nullus gradus citra ſũmũ eſt eque itẽſus cũ gra-
du ſũmo. igit̃ iſta caliditas ſũma nõ eſt eque remiſſa cuꝫ
iſto gradu motu. ſed ɔ̃clõ eſt falſa: q2 oĩa que ſunt equalr̃
magna: ſunt eque parua. igit̃ oĩa que ſunt eque itẽſa: ſunt
eque remiſſa. igit̃ ɔ̃cluſio falſa. ¶ Itẽ ex iſta põne ſeq̃tur 3ᵐ
vt p̄us ꝙ oĩs gradus mot° eſt ĩfinite remiſſus: q2 oĩs gra-
dus mot° ꝑ ĩfiᵐ diſtat a gradu itẽſiſſimo mot°. igit̃ oĩs gra
dus mot° eſt ĩfinite remiſſus. ſꝫ ɔ̃ñs eſt falſuꝫ. igit̃ poſitio.
¶ Itez ſeq̃t̃ ꝙ oĩs gradus calitatis citra ſũmũ eſt ĩfinite 4ᵐ
remiſſus: q2 caliditas ſũma eſt finite intẽſa. igit̃ finite re-
miſſa. ꝓbo ɔ̃ñtiã: q2 omne q̃ãtũ finitũ eſt paruũ. igit̃ per
idẽ oĩs gradus finite intẽſus eſt remiſſus. ſeq̃t̃ g̃ ꝙ calidi-
tas ſũma eſt remiſſa. Sit igit̃. a. vna latitudo caliditatis
que per certaꝫ latitudinẽ diſtet a ſũmo: que latitudo diui
dat̃ in ꝑtes ꝓportionales v̄ſus ſũmũ: tũc per ĩfinituꝫ mi-
nus diſtat aliq̃ pars a gradu ſũmo q̃3 diſtet. a. gradus: q2
in ĩfinitũ ꝓpĩqor eſt aliq̃ iſtaꝝ partiũ gradui ſũmo. cuꝫ
igit̃ remiſſio habeat attẽdi penes diſtãtiã a gradu ſũmo:
ſeq̃t̃ ꝙ in ĩfinitũ minus remiſſa eſt aliq̃ pars illarũ q̃3. a.
gradus: ⁊ q̃libet illaꝝ partiũ eſt remiſſior q̃3 gradus ſum-
mus. igit̃ ĩfinite remiſſus eſt. a. gradus. cõſequẽs eſt fal-
ſum. ergo poſitio falſa.

Ideo ponatur 3ᵃ poſitio pro qua ſic arguitur. 3ᵃ põ
Sicut aliqđ plus diſtat a non
q̃ãto ſic dr̃ maius. igit̃ per idẽ. Sicut aliqđ plus diſtat a
nõ gradu ſue itẽſionis: ſic dr̃ intẽſius. pꝫ g̃ p̄ᵃ pars põnis.
Scḋa arguit̃ ſic: remiſſio opponit̃ intẽſioni. igit̃ ſi intẽſio

bꝫ attēdi penes diſtātiā a nō īteſioni. igit̄ ſi īteſio bꝫ at-
tēdi penes diſtātiā a nō gradu: ſeq̄t ꝙ remiſſio bꝫ attēdi
penes approp̄inquationē ad nō gradū. ¶ Itē vel opꝫ ꝙ
remiſſio attēdat̄ penes diſtātiā a nō gradu: vel penes di-
ſtātiā a gradu ꝑfectiſſimo: vel penes acceſſuꝫ gradui ꝑfe-
ctiſſimo: vel penes acceſſum nō gradui īteſionis. Sed nō
p̄m: q2 penes h̄ attēdit̄ īteſio. ḡ nō remiſſio. Nec 2m modo
vt ꝓbatū eſt ꝑus. Nec 3º mō: q2 ſicut aliq̄d approp̄inqua-
tur gradui ꝑfectiſſimo: ita dicit̄ eē īteſius ⁊ nō remiſſius.
¶ Relinquit̄ ḡ quart' modus penes q̄d remiſſio gradus
3m attēdit̄. pꝫ ḡ 3ª poſitio pro quacūqꝫ eius pte. ¶ Cōtra 1am
ſic tn̄ arguit̄: ex 1ª ſequit̄ ꝙ caliditas ſūma ſit caliditas re-
miſſa: q2 capiat̄ caliditas ſūma que ſit. b. tunc. b. finite di-
ſtat a nō gradu latitudinis: q2 iter. b. ⁊ nō graduꝫ eſt dare
mediū: ſꝫ nulli' īfinita eſt dare mediū. ḡ latitudo calidita-
tis eſt ſolū finita. ꝯña pꝫ cum minori: quia mediū eſt q̄d
equalr̄ diſtat ab extremis: ſed nihil equalr̄ diſtat a gradu
īfinito ⁊ nō gradu: q2 a gradu īfinito omne finitū per infi-
nitū diſtat: ⁊ a nō gradu ſolū ꝑ finitū vt ꝯſtat. pꝫ ḡ ꝙ gra-
2m dus ſūmus finite diſtat a nō gradu. ¶ Item ſic incipiat
ꝙ latitudo caliditatis nō ſit infinita. aliq̄d calidū ſūmū remitti: tūc ſi latitudo caliditatis ſit īfi-
nita: ſequit̄ ꝙ ſubito deꝑdet latitudinē infinitā: vel aliter
nunꝗ̄ erit remiſſum. cū igit̄ frigiditas eq̄uelociter īteñdat̄
ſicut caliditas remittit̄: q2 eq̄uelociter inducet̄ de vno cō-
trario ſicut deꝑdit̄ de reliq̄: vt pꝫ iuxta cōcꝫ pōnēꝫ. ḡ fri-
giditas ſubito acq̄ret latitudinē infinitā: ⁊ ſic nō poſſet eē
aliq̄d mixtū remiſſuꝫ. ꝯña tenet ſic: ſi capiat̄ aliq̄d mix-
tuꝫ: tūc vel eſt vtraqꝫ qualitas finita vel vtraqꝫ īfinita: vl̄
vna finita ⁊ alia īfinita. nō pōt poni ꝙ vtraqꝫ eſt īfinita:
q2 tūc nullū mixtū eēt calidū neqꝫ frigidū: q2 nulli' mixti
caliditas excederet frigiditateꝫ nec ecōtra: ſi vtraqꝫ foret
īfinita. Si vna ſit finita ⁊ alia īfinita. igit̄ omne tale mix-
tuꝫ foret īfinite īteſuꝫ vel nō īteſum: q2 vna q̄litas per in-
finitū excederet aliā. ſꝫ ꝯñs eſt falſuꝫ pro vtraqꝫ eius pte.
videlꝫ ꝙ omne mixtū foret īfinite īteſum vel nō īteſum.
Relinquit̄ ḡ ꝙ tam caliditas q̄ꝫ frigiditas eſt ſolū finita.
¶ Tūc ſic arguit̄. ponat̄ frigiditatē mixti remitti ad nō
gradū: tūc eq̄uelociter ſicut frigiditas remittet̄ ſic calitas
īteñdet̄: ⁊ eque cito deueniet caliditas ad ſūmū ſicut frigi-
ditas ad nō gradū vt ꝯſtat: q2 ſi ſit caliditas ſine frigidita-
te ⁊ h̄ per ſcā ꝙ nō ſit pars alterius ipſa eſt ſūma. ḡ per
tātū diſtat calitas a gradu ſūmo ſicut frigiditas a nō gra-
du: ⁊ per ꝯñs cuꝫ frididitas diſtat per finitū a nō gradu: ſeq-
tur ꝙ iſta caliditas ꝑ finitū ſolū diſtat a gradu ſūmo: ⁊ a nō
gradu diſtat ſolū iſta caliditas ꝑ finitū: q2 eſt remiſſa. ḡ ſeq-
tur ꝙ caliditas ſūma per finitū tm̄ diſtat a nō gradu. Ca-
piat̄ ḡ vnus mot' qui ꝑ tātuꝫ diſtet a nō gradu mot' ſicut
iſta caliditas ſūma a nō gradu caliditatis qui mot' ſit. a.
⁊ iſta calitas. b. Qz h̄ ſit poſſibile pꝫ: q2 latitudo mot' eſt
īfinita: eo ꝙ latitudo ꝓportionis eſt īfinita: ⁊ latitudo mo-
tus cōſeq̄t ꝓportionē ſeu latitudinē ꝓportionis. Tūc ſic
arguit̄. Remiſſio cuiuſlibet latitudis bꝫ attēdi penes ap-
propinquationē nō gradui. cum ḡ. a. motus: ⁊. b. caliditas
equalr̄ approp̄inquet nō gradui: ſeq̄t ꝙ. a. mot': ⁊. b. cali-
2ª aliq̄rū. ditas ſunt eque remiſſa. pꝫ ꝯña iuxta pōneꝫ. ¶ Quidā tn̄
negāt ꝯñtiā: ⁊ dicūt ꝙ gradus ſūmus eſt remiſſe īteſus:
ex q̄ tn̄ nō ſeq̄t vt dicūt ꝙ gradus ſūmus ſit remiſſus ⁊c̄.
Ↄ rn̄ſionē ¶ Cōtra iſtā reſpōſionē arguit̄. ex ea ſequit̄ iſta cōcluſio
ꝙ. a. ꝯtinue erit remiſſius. b. ante finē iſtius hore: ⁊ in fine
b. erit remiſſum ſub certo gradu: ⁊. a. nō erit tūc aliqualr̄
remiſſum: nulla latitudine remiſſionis ſubito deꝑdita re-
ſpectu. a. nec aliqua ſubito acquiſita reſpectu. b. ¶ Qz tn̄
iſta ꝯclō ſit īpoſſibilis arguit̄ ſic. Capiat̄ iſta remiſſio quaꝫ
habebit. b. in fine illius hore: tūc iſta remiſſio. b. in nulla ꝓ-
portione erit minor in fine q̄ꝫ imediate ante finē. igitur ſi

imediate ante finē erit. a. remiſſius. b. ⁊ in fine nō erit ali-
qualiter remiſſum. a. ſequit̄ ꝙ. a. ſubito perdet tātam re-
miſſionē quantā. b. habebit in fine vel maiorē. q̄d eſt op-
poſitū vnius ptis ꝯñis. igit̄ ex vna pte ꝯclōnis: ſequit̄ op-
poſitū alterius ptis: ⁊ per ꝯñs ꝯcluſio eſt īpoſſibilis. Et ꝙ
1ª cōcluſio ſequat̄ arguit̄ ſic. Incipiat. a. caliditas īteñdi a
nō gradu: ⁊ īteñdat̄ in 1ª hora ad ſūmū: ⁊ incipiat etiaꝫ. b.
mot' īteñdi a nō gradu mot': ⁊ īteñdat̄ cōtinue in duplo
velocius. a. caliditate: quo poſito ſequit̄ cōcluſio. naꝫ ꝙ. a.
an̄ finē hore ꝯtinue erit remiſſius. b. ꝓbo. remiſſio cuiuſli-
bet ḡdus attēdit̄ penes approp̄inq̄tionē ad nō gradū ſui
poſitiui: ſꝫ. a. cōtinue erit ꝓpinquius nō gradui ſue latitudi-
nis q̄ꝫ. b. nō gradui ſue latitudinis: vt cōſtat: q2. a. cōtinue
in duplo tardius recedit a nō gradu q̄ꝫ. b. ergo ſequit̄ ꝙ. a.
cōtinue erit remiſſius q̄ꝫ. b. ante fineꝫ illius hore: ⁊ in fine
nō erit. a. aliqualr̄ remiſſum iuxta poſitionē: eo ꝙ tūc erit
ſūmū. Et ꝙ nullā latitudinē remiſſionis ſubito deperdet
a. arguit̄ ſic. Nā nullā latitudinē iteñ' ſubito acq̄ret. a. eo
ꝙ finite velociter īteñdet̄. Sꝫ deꝑdere remiſſionē nō eſt
aliud q̄ꝫ acq̄rere īteſionē vt pꝫ: eo ꝙ remiſſio ſe habet pri-
uatiue reſpectu īteſionis: ⁊ ꝑuatiuū acq̄ri nō eſt aliud q̄ꝫ
poſitiuū deꝑdi: nec priuatiuū deꝑdi aliud eſt q̄ꝫ poſitiuuꝫ
acq̄ri. Cū ergo nulla latitudo īteſionis ibi ſubito acq̄rat̄:
ſequit̄ nullā latitudinē remiſſionis ſubito deꝑdi reſpectu
a. ergo nō poterit 1ª cōclō euitari. ¶ Ideo breuiter ꝯcedē- 2ª ꝯclō.
da eſt cōcluſio ꝑncipalis inducta cōtra iſtā poſitionē. vꝫ. Grad' ſū-
ꝙ gradus ſūmus eſt remiſſus. ¶ Cōtra iſtā rn̄ſionem ſic mus eſt re-
arguit̄. Nō dr̄ aliq̄d remiſſum niſi reſpectu alterius īte- miſſus.
ſioris. Si ergo gradus ſūmus foret remiſſus: ſeq̄t ꝙ aliq̄s Ↄ rn̄ſionē.
gradus foret īteſior gradu ſūmo. ꝯſequēs eſt falſuꝫ: ⁊ cō-
ſequētia tenet ex hoc ꝙ īteſum ⁊ remiſſum dicunt̄ rela-
tiue adinuicē: vt magnū ⁊ paruuꝫ. ¶ Itē ſic omne remiſ- 2m
ſum eſt remiſſum per admixtionē ſui ꝯtrarij poſitiui. Sꝫ
gradus ſūmus caliditatis nō admiſcet̄ cum ſuo cōtrario.
igit̄ nō eſt remiſſus. ¶ Pro dictis eſt ſuſtinēda 3ª poſitio Solutio
ꝑncipalis. ⁊ ꝯſequēter ꝯcluſio ꝙ gradus ſūmus eſt remiſ-
ſus. ¶ Et tūc quādo arguit̄ ꝙ nulla caliditas eſt calidita-
te ſūma īteſior. ergo iſta nō eſt remiſſa. negat̄ ꝯſequētia:
q2 ⁊ ſi nulla caliditas ſit de facto īteſior: nō repugnat tn̄
illi caliditati ꝙ aliqua ſit caliditas īteſior: etiā imaginā-
do caliditatem īteſioreꝫ: iſta foret remiſſa ſicut nunc eſt.
¶ Aliter pōt dici ꝙ ⁊ ſi gradus ſūmus caliditatis non ſit 2ª rn̄ſio
remiſſus reſpectu alicui' caliditatis: tn̄ reſpectu alicui' al-
terius īteſi ſicut eſt mot': vel aliq̄d hōꝫ q̄d eſt iſta calidita-
te īteſius: dicit̄ iſta caliditas remiſſa: q2 eſto ꝙ nō foret ca- Nota
liditas intenſa ſupra mediū: adhuc iſta caliditas foret re-
miſſa: q2 ita remiſſa ſicut nūc eſt: ⁊ tamē nulla foret cali-
ditas iſta caliditate īteſior: ideo iſtud argm nō procedit.
¶ Ad 2m dico ꝙ nec aliq̄d dr̄ remiſſum: eo ꝙ aliq̄d ſit īn- Ad 2m
teſius: vel q2 habeat admixtionē ſui ꝯtrarij. Sꝫ aliq̄d di-
cit̄ eē remiſſum: eo ꝙ ſit modicuꝫ: vel ſit modicū cōtinet
de īteſione. Nā capiat̄ caliditas ſūma: tūc iſta caliditas cō-
ponit̄ ex ptibus q̄litatiuis: vt quātitas ex ſuis ptibus quā-
titatiuis: ſicut poſtmodū arguet̄. ergo caliditas ſūma in ſe
ꝯtinet caliditatē remiſſam: ⁊ tn̄ cum nulla pte caliditatis
ſūme coextendit̄ frigiditas vt pꝫ: q2 q̄cq̄d coextēdit̄ cum
pte caliditatis per totū ſūme cuꝫ tota iſta caliditate extē-
dit̄. ergo iſtud aſſumptuꝫ eſt falſum. ſ. ꝙ omne remiſſum
eſt remiſſum per admixtionē ſui cōtrarij: ſꝫ dicit̄ remiſ-
ſum: eo ꝙ modicum cōtinet de īteſione: ⁊ neutrum argm
procedit cōtra iſtam poſitionem.

Circa iſtam poſitionē alie verſant̄ poſitiones. Tres poſitiones cir-
quedā eniꝫ ponit ꝙ oīs gradus eſt ca tertiaꝫ.
ita īteſus ſicut ipſemet eſt remiſſus. Scđa ponit ꝙ aliq̄s
gradus eſt ita īteſus ſicut remiſſus ⁊ ecōtra: ſꝫ nō quili-
bet. Tertia

bet. Tertia ponit ꝙ numerus gradus eſt ita inteſus ſicut remiſſus. Et ſic iſte poſitiones ponit de inteſione ꝛ remiſſione: ita etiaʒ ponit de magnitudine ꝛ de paruitate: ꝛ de omni latitudine que priuatiue vel poſitiue reſpectu alterius latitudinis conſideratur. vel que dr̄. ſ. poſitiue vel priuatiue cōſideratur. ¶ Cōtra quas tres pōnes iſtimatur cōcernēter. ꝛ pro iſtis opinionibus arguitur ſigillatim. Et pͦ arguitur pro pͣ

Argui pro pͣ pone. opinione ſic. Inteſio gradus attēditur penes diſtantiā a nō gradu: ꝛ remiſſio penes acceſſum ad ſuū nō graduʒ. Sed ōis gradus equal'r diſtat a nō gradu ſicut ipſe eſt ꝓpinquus nō gradui: qꝛ nō differūt real'r ꝓpinquitas non gradui ꝛ diſtātia ab eodē. ſicut eadē eſt ꝓpinquitas real'r aliquoꝝ ad

2m inuicē ꝛ diſtātia inter eꝰ. ¶ Itē ſic arguit ꝙ eadē eſt latitudo itenſionis ꝛ remiſſionis real'r. qḋ ſic arguitur: eadeʒ eſt latitudo itenſionis ꝛ remiſſionis caliditatis cuʒ iſta caliditate: ꝛ quecūq; ſunt eadē cum eodē 3o ſunt eadē inter ſe per cōēʒ animi cōceptionē. ergo real'r inteſio ꝛ remiſſio ſunt eadeʒ. Maior arguitur ſic. caliditas eſt itenſa. ergo mediāte aliq̄ itēſione eſt itenſa: ſʒ nō mediāte itenſione alia ab ipſa caliditate. ergo itenſio caliditatis

Nota ꝙ iſto argumēto maxime ꝓbat ꝙ itēſio nō differt a re itenſa. eſt ipſa caliditas. Minor arguitur ſic: qꝛ ſi itenſio caliditatis ſit alia ab iſta caliditate. Cū ergo ipſa itenſio ſit itenſa: ſeq̄ ꝙ itenſio illius itēſionis foret alia ab ipſa itēſione: ꝛ ſic eēt ꝓceſſus in infinitū: vel ſi eēt ſtatus alicubi ſequeretur eadē rōne ꝙ eēt ſtādū in primis. ſ. ꝙ pͣ caliditas cuʒ ſua itenſione eſt eadē. ſʒ cōſequēs eſt impoſſibile. ſ. ꝙ foret ꝓcedēdū in infinitū in itēſionibus tal'r ordinatis: qꝛ tūc quolibet itēſum foret infinite intēſum: eo ꝙ hēret infinitas tales itēſiones: quaꝝ quelibet foret ipſa caliditate intēſior: vel cū iſta caliditate foret eque intēſa: ꝛ q̄libet iſtaꝝ foret per ſe tantuʒ extēſa ſicut foret iſta caliditas: ſʒ ꝯñs eſt falſuʒ. igitur illud ex quo ſeq̄. Et ꝙ quelibet iſtaꝝ intēſionū ſit tāta ſicut iſta caliditas ꝓbatur: qꝛ caliditas eſt intēſa per pͣm iſtaꝝ itēſionū ſolū. ergo pͣ intenſio eſt maior iſta caliditate. ꝯña tenet per illud ꝓpter qḋ vnūquodq; tale et illud magis. vel ſaltē ſequitur ꝙ pͣ itenſio eſt alia ſicut iſta caliditas. Et ſimil'r arguitur de 2a intenſione reſpectu prime: ꝛ ſic deinceps. ergo ſequitur ꝙ illud corpus hēt tales intēſiones infinitas: quaꝝ quelibet iſta certa data foret intēſior. ꝛ per ꝯñs illud corpus hñs talem caliditatē foret infinite intēſum. Cōſequēns arguitur: qꝛ pͣ itenſio eſt cauſa itēſionis iſtius caliditatis. ꝛ 2a itenſio eſt cauſa pͤ itenſionis: ꝛ quicqd eſt cauſa cauſe, eſt cauſa cauſati. ergo 2a itenſio eſt cā intēſionis illius caliditatis: ꝛ ſic de 3a itenſione: ꝛ de quacūq; alia reſtat arguere. igitur hic ſunt infinite cauſe reſpectu itenſionis illius caliditatis: quaꝝ quelibet certā intēſionē cōferret: ſic oēs iſte infinitā itēſionē cōferūt: qꝛ quelibet illaꝝ maioreʒ intēſionē cōferret q̄ iſta certa data. ſequitur ergo ꝙ omne intēſum foret infinite intēſum. ꝯñs falſum ꝛ impoſſibile. ergo illud ex quo ſequitur. ſ. ꝙ intēſio

Cōfirmatur ꝓ caliditatis a caliditate differat. ¶ Itē ſi ſunt infinite tales intēſiones vel ſunt oēs eiuſdem ſpēi vel diuerſe ſpēi. ſi eiuſdē: ergo equalis vna itenſio ex oībus hiis cōpoſita: que itenſio foret necio infinita. ergo infinite oēs denominant iſtā caliditateʒ. Si ſunt diuerſarū ſpecierū. vel igitur oēs ſunt diuerſarū ſpērū: vel alique ſunt eiuſdē ſpēi ꝛ alique diuerſe. ſi oēs ſunt diuerſarū ſpērū ꝛ oēs tales ſunt in pͣdicamento qualitatis: qꝛ ꝑ oēm talē omne dr̄ aliqd quale. ergo infinite ſunt ſpēs q̄litatis qḋ ratio nō admittit. Si alique ſunt eiuſdē ſpēi ꝛ aliq̄ diuerſe ſpēi. vel ergo ſolū finite ſunt eiuſdē ſpēi vel infinite. Si ſolū finite. ergo ſunt infinite diuerſaꝝ ſpērū. Si infinite ſpēs finitis addātur: oēs ex hiis reſultātes ſoluʒ finite erūt. ſ. numerus ex hiis ſolū erit finitus. Si ſunt infinite itenſiones eiuſdē ſpēi. ergo cuʒ per totū extēdatur ſequitur itenſionem ex

2o hiis cōpoſitā fore infinitam. ¶ Iteʒ ſi aliqua talis itenſio ſit eiuſdeʒ ſpēi cum itenſione ab ea denoīata itenſio qua rōne denoīatur ab itenſione eiuſdē ſpēi cum ea eadē rōne a ſeipſa denoīatur itenſio. ꝛ ſic ideʒ eſt itenſio alicuius itēſionis cuʒ ipſa itenſione: ꝛ per ꝯñs pari rōne ſtādū eſt in caliditate ꝙ ipſa cuʒ ſua itenſione eſt eadē ſpecifice. igitur ſua itenſio eſt caliditas: ꝛ ſic forēt due tales caliditates. Et per idē itenſio 2e caliditatis eēt caliditas: ꝛ ſic in infinitū. igitur cum ille caliditates nō cōcernāt quelibet eſt eque itenſa cuʒ pͣ vel itenſior: ſequitur oēs iſtas in infinitū ſubiectum ſuū denoīare itenſum. ¶ Itē ꝙ itenſio caliditatis ſit

2m pͥncipale. eadē ſpecifice cū caliditate iſta arguitur: qꝛ illa itenſio nō eſt in alio pͣdicamento q̄ in pͣdicamento qualitatis: vt pʒ ꝑ ſingula diſcurrendo. Sit ergo ſit in pͣdicamento q̄litatis: ꝛ nulla caliditas ab alia q̄litate denoīatur: qꝛ nec a frigiditate nec ab humiditate: ꝛ ſic de ſingulis: qꝛ ſi ſic ſit: ſit ꝙ. a. caliditas denoīetur a q̄litate. b. arguitur ꝙ. b. ſit. a. qꝛ ſi. b. nō ſit. a. nec pars. a. ſequitur ꝙ ad corruptionē. b. nō ſequitur corruptio. a. vt cōſtat. Corrumpatur ergo. b. manēte. a. tūc poſt corruptionē. b. erit. a. caliditas itenſa ꝛ nō denoīabitur. a. b. qꝛ. b. tūc non erit: nec ab aliqua q̄litate alia a ſeipſa denoīabitur: qꝛ ad corruptionē. b. nō ſequitur aliquā aliā qualitateʒ denoīare de nouo. a. igitur corrupto. b. a. denoīatur itenſum a ſeipſo. igitur tūc erit. a. itenſio ſuppoſitiue: ꝛ eadē rōne in pͥncipio: qꝛ aliter corrupto. b. a. nō diceretur itenſum. cuius oppoſitū

3m ſatis pʒ. ¶ Itē iſta itenſio q̄litatis nō eſt qualitas pͣ que ab ipſa q̄litate itenſa differat vt eſt argutum: qꝛ nulla qualitas pͣ ab alia qualitate pͣ alia a ſeipſa dicitur itenſa: nec iſta itenſio eſt qualitas 2a: qꝛ tūc cum q̄litas 2a reſultat ex primis: ſequitur ꝙ nō foret itenſio q̄litatis niſi vbi plures q̄litates exiſterent. cōſequēs eſt falſum. ergo illud ex quo ſequitur. ergo ex hiis ſequitur intēſionē caliditatis a caliditate nō diſtingui real'r: ꝛ ſic de omni alia q̄litate. ꝛ ſimil'r arguitur remiſſioneʒ a qualitate remiſſa nō diſtingui real'r. igitur ſequitur eadē eſſe real'r latitudineʒ itenſionis ꝛ latitudinē remiſſionis. Et itenſio habet attēdi penes receſſuʒ a nō gradu itēſionis. Et remiſſio habet attēdi penes ꝓpinquationeʒ nō gradui ſue itēſionis: qꝛ remiſſio nō pōt attēdi penes diſtātiā a nō gradu remiſſionis: quia nō gradus remiſſionis eſt infinite intēſionis: ſʒ q̄libet gradus per infinitū diſtat a nō gradu remiſſionis: qꝛ per infinitū diſtat a gradu infinito itēſionis. Si ergo penes huiuſ diſtātiā hēret remiſſio attēdi: ſequeretur oēm gradū infinite remiſſuʒ exiſtere. ¶ Et ſic notandum eſt ꝙ ab omni gradu remiſſio- Nota
nis vſq; ad nō gradum remiſſionis eſt latitudo infinita: et vſq; ad gradum infinitū remiſſionis ſoluʒ finita latitudo: qꝛ nō eſt aliud gradus infinitus remiſſionis q̄ nō gradus intēſionis: ꝛ ab omni gradu vſq; ad nō graduʒ intēſionis eſt latitudo ſolū finita. ergo ꝛc̄. ¶ Ex hiis eſt notādū etiā Nota
ꝙ ab omni gradu remiſſionis vſq; ad ſuuʒ duplū remiſſionis priuatiue accidentis remiſſionē eſt in duplo minor latitudo q̄ inter ipſum ꝛ ſuū ſubduplū remiſſionis: qꝛ nō eſt aliud gradus duplus remiſſionis q̄ gradus ſubduplus itenſionis: ꝛ gradus ſubduplus remiſſionis q̄ gradus dupluʒ intēſionis. Sʒ ab omni gradu intēſionis vſq; ad ſuū ſubduplū eſt in duplo minor latitudo q̄ inter ipſum ꝛ ſuū duplū. ergo inter oēm remiſſionē ꝛ duplam ad illā eſt in duplo minor latitudo q̄ inter illā ꝛ ſuaʒ ſubduplam. ꝛ cōſimiliter eſt de omni latitudine priuatiue ꝯſiderata: cuius oppoſitū eſt de omni latitudine poſitiua ſi ipſam poſitiue conſideres. ¶ Ex hiis arguitur poſitio ſic. Si idem gradus ſit latitudo intēſionis ꝛ remiſſionis real'r: ſequitur ipſum graduʒ ita intenſum ſicut remiſſum conſiſtere.

Contra iſtam poſitionē arguitur. Et pͥmo ſupponantur due cōmunes animi cōceptiones ab Euclide ꝛ Cāpano poſite: quarū hec eſt pͥma. Quum duoꝝ equaliū ad 3m eadeʒ eſt ꝓportio ꝛ econuerſo. Scḋa eſt hec: ꝙ oīa que in equali ꝓportione ad aliqḋ 3m ſe habēt inter ſe ſunt equalia. ¶ Ex iſtis arguitur ſic. Sit. a. vnus gradus: ꝛ. b. itenſior. a. tūc. a. eſt ita itenſum ſicut remiſſum iuxta poſitionē: ꝛ. b. itenſius. a. ꝛ minus remiſſuʒ q̄. a. eo ꝙ. b. eſt remotius a nō gradu itenſionis q̄. a. ergo. b. nō

eſt ita intenm ſicut remiſſus. ¶ Pro iſto videt᷑ q᷑ cõiter ab oĩbus iſtã poſitionẽ ponẽtib⁹ negãdo ↄ̃ñtiã: ⁊ ad eius pbationẽ arguit᷑ per pᵐ ſuppõnẽ: ⁊ ponat᷑ oppoᵐ cõſe-quẽtis ſtare cũ añte. ⁊ arguit᷑ ſic. a. eſt eque itenm ſicut re-miſſum. ḡ tãta eſt pportio itẽſionis. b. ad itenſionẽ. a. quã-ta eſt pportio itenᶦˢ. b. ad remiſſionẽ. a. ↄ̃ñtia tenet iuxta pmã ſuppõnẽ ꝑʒ ſatis. nũc arguitur ſic ex ↄ̃ñte tãta eſt pportio itenᶦˢ. b. ad itenᶦˢ. a. quãta eſt itẽſionis. b. ad remiſſionẽ. a. ſʒ itẽſio. b. ſe habet ad itenm. a. in pportione maioris in-equalitatis. ḡ itenᵒ. b. ſe habet ad remiſſionẽ. a. in pportio-ne maioris ineq̃litatis. nũc arguit᷑ ſic. b. eſt ita intenm ſicut remiſſum ⁊ oĩum eq̃liũ ad 3m eadẽ eſt pportio. cũ ḡ itenᵒ b. ſe habet in pportione maioris ineq̃litatis ad remiſſio-nẽ. a. ſeq̃t᷑ q remiſſio. b. ſe habet in pportione maioris in-eq̃litatis ad remiſſionẽ. a. ↄ̃ñs falſũ. ḡ 1ᵐ ex quo ſeq̃t᷑. ſ. po-ſitio ⁊ miſſio. ¶ Itẽ ſic. ſit. c. in duplo remiſſius. a. ⁊. b. in du-plo itẽſius. a. ⁊ arguit᷑ ſic. remiſſio. c. ſe hʒ in pportione du-pla ad remiſſionẽ. a. eo q in duplo minus diſtat a nõ gra-du itenm q̃ᵐ remiſſio. a. ⁊ itenᵒ. b. ſe hʒ in pportione duᵃ ad remiſſionẽ. a. per arm ↄ̃ſilẽ argᵒ pcedẽ: ⁊ oĩa in eq̃li ppor-tione ſe hñ̃ᵃ ad aliqḋ 3m inter ſe ſunt eq̃lia per 2ᵃᵐ ſuppõ-nẽ. ḡ itenᵒ. b. ⁊ remiſſio. c. inter ſe ſunt eq̃les: ſʒ remiſſio. c. eſt maior remiſſione. b. ḡ itenᵒ. b. eſt maior ſua remiſſiõe. ↄ̃ñtia tenet ex h q ſi ſint aliqua duo eq̃lia reſpectu cuiuſ-cũq; eſt vnũ illoꝝ maius reſpectu eiuſdẽ: eſt alteꝝ eodẽ maius per cõem animi ↄceptiõẽ. ⁊ minor ꝑʒ. ſ. q re-miſſio. c. eſt maior remiſſione. b. eo q eſt ppinqor nõ gra-dui itenᵇ q̃ᵐ remiſſio. b. igit᷑ ſeq̃t᷑ q. b. eſt magis itẽſum q̃ᵐ remiſſum. ⁊ per idem. c. eſt magis remiſſum q̃ᵐ itenm: ⁊ ſic vl̃r ſi aliqḋ ſit eque remiſſum ſicut itenm: omne eo itẽſius eſt magis itenm q̃ᵐ remiſſum: ⁊ omne eo remiſſius eſt ma-gis remiſſũ q̃ᵐ itenm. igit᷑ iſta poſitio falſa. ¶ Itẽ oĩa arᵗᵃ que fuit ↄ̃tra põnẽ pmã ſequẽtẽ ſunt ↄ̃tra iſtã põnem: vt ꝑʒ: q2 pbãdo q nil ſit ita itenm ſicut remiſſũ. ſatis pba-tur q nõ oĩs gradus ſit ita intẽſus ſicut remiſſus.

Pro 2ᵃ põne p.

Pro ſecũda poſitiõe ſic arguit᷑. Capiat᷑ aliqs gra-dus qui ſit. a. tunc ſi. a. ſit intẽſior q̃ᵐ ipſemet ſit remiſſus: ponat᷑. a. remitti ad nõ gradũ: tũc ex quo itenᵒ remittet᷑ ad nõ gradũ ⁊ remiſſio itẽdat᷑ ad infi-nitũ: ſeq̃t᷑ q aliqñ erit remiſſio tãta ſicut pꝛiũ erit 1ᵒ itenᵒ: eo q nũc eſt maior itenᵒ q̃ᵐ remiſſio. ¶ Itẽ ſic capiat᷑ gra-

2ᵒ

dus meᵒ inter itẽſionẽ ⁊ remiſſionẽ: ⁊ ſeq̃t᷑ exquo ita velo-citer maiorabit᷑ remiſſio ſicut minorabit᷑ itenᵒ: q2 non eſt aliud remiſſionẽ maiorari q̃ᵐ itenᵉᵐ remitti. ḡ in 1ᵒ inſtãti in quo itenᵒ erit ſub 1ᵒ gradu medio, erit ⁊ remiſſio ſub eo-dẽ gradu. Sil̃r ſi intẽſio ſit minor q̃ᵐ remiſſio itẽdat᷑ in ĩfinitũ: ⁊ ſeq̃t᷑ q aliqñ erit ita itenm ſicut remiſſum p argm ꝑſaᵐ. ḡ pᵃ pars illᵉ videt᷑ eẽ vera. ¶ Pro 2ᵃ pte illᵉ poſi-tionis arguit᷑ per argᵃ que ſunt facta ↄ̃tra poſitiones pce-dẽtem: ſcilʒ q nõ oĩs gradus ſit ita intẽſus ſicut remiſſus.

3 põnes

Ideo cõtra 1ᵃᵐ poſitionẽ arguit᷑. Primo ↄ̃tra pmã pteʒ: ⁊ ponat᷑ q ſi ſit poſſibile q. a. ſit ita itenm ſicut remiſſum: ⁊ capiat᷑ intẽſio equalis intẽſioni. a. que ſit. b. ⁊ pono. a. vni-formiter remitti ad ſubduplũ: ita q remiſſio eius que ſit c. maioret᷑ vniformiter ad duplũ: quia per poſita idem eſt remiſſionẽ vniformiter maiorari ad duplũ: ⁊ intẽſionem vniformiter deperdi ad ſubduplũ. ⁊ ponat᷑ q eque ppor-tionabiliter maioret᷑. b. itenᵒ ſicut. c. remiſſio: quo poſito exquo. c. vniformiter maiorabit᷑ ad duplũ: ⁊ remiſſioneʒ vniformiter maiorari ad duplũ eſt itenᵉᵐ vniformiter re-mitti ad ſubduplũ. ergo itenᵒ. a. vniformiter remittit᷑ ad ſubduplum. ⁊ per ↄ̃ſequẽs in medio inſtãti erit itenᵒ. a. in ſexqͥalteꝛo remiſſioꝛ q̃ᵐ nunc eſt: vt ſi nũc ſit itenᵒ vt. iiij. ſi vniformiter remittit᷑ ad ſubduplũ in iſtãti medio, erit vt. 3ᵉ: ⁊ per ↄ̃ſequẽs erit in inſtãti medio in ſexqͥaltero minor q̃ᵐ nunc eſt: ⁊ pportionabil̃r ſicut intẽſio erit minor: ſic re-miſſio erit maior: q2 idem eſt eẽ in ſexqͥaltero remiſſius ⁊ in ſexqͥaltero minus intẽſum. ergo in medio inſtãti erit re-miſſio. a. in ſexqͥaltero maior q̃ᵐ nunc eſt. ⁊ pportionabil̃r ſicut. c. remiſſio erit maior: ſic. b. intenſio erit maior: eo q eque pportionabil̃r maiorabũtur. c. ſicut. b. ergo in inſtã-ti medio erit. b. intẽſio in ſexqͥaltero maior q̃ᵐ nũc eſt. ↄ̃ſe-quẽs falſum vt pbabo ⁊ caſus eſt poſſibilis. igit᷑ cõcluſio falſa. ¶ Falſitas ↄ̃ñtis arguit᷑ ſic. b. eſt vnum poſitiuũ qḋ vniformiter maiorabit᷑ ad ſuũ duplũ. ergo in inſtãti me-dio erit in ſexqͥaltero maius q̃ᵐ nũc eſt: ⁊ nõ in ſexqͥalte-ro maius. ↄ̃ſequẽtia tenet de omni latitudine poſitiua: vt ſatis liquet: vt ſi nũc ſit. iiij. ⁊. viij. eſt poſitiue duplum ad q̃tuor: ſi quatuor vniformiter maiorabit᷑ ad ſuum duplũ vniformiter maiorabit᷑ ad. viij. ⁊ per ↄ̃ſequens in medio erit vt ſex: ⁊ gradus vt ſex eſt in ſexqͥaltero maior q̃ᵐ qua-tuor. igit᷑ ſi. b. poſitiuũ vniformiter maiorabit᷑ ad ſuũ du-plũ in medio iſtãti erit in ſexqͥaltero maius q̃ᵐ nũc eſt: ⁊ p ↄ̃ſequẽs nõ ſexqͥaltero pciſe maior. ⁊ q ſequit᷑. b. maio-rari vniformiter ad duplũ arguit᷑ per 2ᵃᵐ ſuppõneʒ que eſt: q oĩa duo. ſe habẽtia ad 3m in eadẽ pportione inter ſe ſunt eq̃lia: ⁊ ſit. d. gradus ſub quo nũc ſunt. b. c. ⁊ arᵗ ſic. c. b. ſunt nũc ſub. d. gradu: ⁊ pportionabil̃r ſicut. b. erit ma-ius q̃ᵐ nũc eſt: ſic. c. erit maius q̃ᵐ nũc eſt. ergo tãta cõtinue erit pportio. c. ad. d. ſicut. b. ad. d. ↄ̃ſequẽtia tenet per hoc. Si equalib⁹ equalia addãtur, reſultãtia erũt equalia: q2 igit᷑ pportiones. c. ad. d. ⁊. b. ad. d. nũc ſunt equales ⁊ eque pportionabil̃r maiorabit᷑. c. ſicut. b. igit᷑ equalẽ pportio-neʒ acqret. c. ſupra. d. ſicut. b. ſupra. d. q2 pciſe per tãtuʒ maiorabũtur. c. b. ergo tãta ↄ̃tinue erit pportio. c. ad. d. ſi-cut. b. ad. d. ⁊ oĩa in equali pportione ſe habentia ad aliqḋ 3m iter ſe ſunt equalia. ergo. c. b. ↄ̃tinue erũt equalia: ⁊ per ↄ̃ſequẽs tãtuʒ ↄ̃tinue addet᷑. b. ſic. c. ⁊ ecõuerſo. per hec ſi equalib⁹ equalia addãtur: reſultãtia ſunt equalia. ſeq̃t᷑ ḡ q exquo. b. c. cõtinue erũt equalia q eque velociter ma-iorabitur. b. cũʒ. c. ⁊. c. vniformiter maiorabit᷑ ad duᵐ per caſuʒ. ergo: b. vniformiter maiorabit᷑ ad ſuũ duᵐ: ⁊ per cõ-ſequẽs in iſtãti medio erit. b. in ſexqͥaltero maius q̃ᵐ in pꝛĩ-cipio. Et ex poſitione cum caſu ſequit᷑ q in inſtãti medio erit. b. in ſexqͥaltero maius q̃ᵐ nũc. ex poſitione ḡ ſeq̃t᷑ cõ-tradictio ⁊ caſus eſt poſſibilis põni nõ repugnãs: vt ſatis ↄ̃ſtat. igit᷑ poſitio iſta falſa eſt: q2 ex iſta põne ſequit᷑ q in iſtãti medio erit. b. intẽſius q̃ᵐ ipſummet: tunc erit intenm.

¶ 2ᵒ ↄ̃tra põneʒ illã arguit᷑: ex 1ᵃ ſeq̃t᷑ iſta ↄclõ q itenᵉ re-miſſa ad non gradũ remiſſio pciſe maiorabit᷑ ad duᵐ. Q2 iſta ſit falſa arg᷑ ſic pporᵉ ſic itenᵒ erit minor: ſic remiſſio erit maior p parᵗᵃ: eo q pportioᵉ ſic aliqḋ ſit minus itenm: ſic ſit ipſum remiſſius. ſi igit᷑ itenᵒ remittat᷑ ad nõ gradũ re-miſſio maiorabit᷑ i iñm. ḡ ↄclõ falſa. Et q iſta ↄclõ ſeq̃tur arguit᷑ ſic. ſit. a. vt pus eque itẽſuʒ ſicut remiſſuʒ: cuius itẽſio remittat᷑ ad nõ gradũ: ⁊ ſit eius remiſſio. c. ⁊. b. itenᵒ equa-lis. a. que itẽdat᷑ equal̃r ſicut. a. remittit᷑: quo poſito ſequit᷑ q itenᵒ. a. remittit᷑ vſq; ad nõ gradũ. ⁊ q eius remiſſio ſo-lũ itendit᷑ ad duᵐ arguit᷑ ſic. c. ⁊. b. ↄ̃tinue eq̃uelociter ma-iorabũtur: q2 ita velociter ſic. a. remittet᷑: ſic velociter ma-iorabit᷑ eiᵒ remiſſio: q2 nõ eſt aᵒ remiſſioneʒ maiorari niſi itenᵉᵐ remitti per pus arᵗᵃ: ſʒ ita velociter intẽdet᷑. b. ſicut a. remittet᷑. ergo ita velociter. b. itẽdet᷑ ſicut. c. maiorabit᷑. cũ igit᷑. b. c. nũc ſint equalia: ſeq̃t᷑ q ↄ̃tinue erũt eq̃lia. Si igit᷑. d. gradus ſub quo nũc ſunt. b. c. ⁊ ſequit᷑ q exquo. b. c. ↄ̃tinue erũt equalia inter ſe: q eoꝛuʒ ad. d. quod eſt 3m cõ-tinue erit eadem pportio: per hoc q oĩum duoꝝ equaliũ ad 3m eadẽ eſt pportio. cum igit᷑ nunq̃ᵐ ante finẽ remiſſio-nis totiᵒ. a. ad nõ graduʒ ſit dupla pportio. b. ad. d. ſeq̃t᷑ q nunq̃ᵐ ante finẽ erit dupla pportio. c. ad. d. ⁊ nũc eſt. c. ſub d. gradu:

d. gradu: nec ante finez erit ſub gradu duplo intenſiori. d. gradu. igit̃ remiſſio. a. preciſe fiet in duplo maior ꝙ̃ nunc
1° eſt: ſequit̃ ergo ꝯclo. ¶ Tertio ad idez ſic arguit̃ ꝓbando ipſaꝫ fore falſum. naꝫ ex ipſa ſequit̃ iſta cõcluſio ꝙ. b. intẽſio per intenſionẽ finitã ſolum in tpe finito intẽderetur in infinitũ. que ꝯña arguit̃ eſſe falſa. Si. n. aliqđ poſitiuũ in infinitũ intẽderet̃ in tpe finito ſequeret̃ eius intenſionem mc̃ qua intẽderet̃ infinito gradui correſpõdere: ꝗꝛ a nullo gradu finito põt latitudo infinita in tpe finito acqri vt ſatis pꝫ. ergo cõcluſio falſa ⁊ ipoſ'is. Et ꝙ iſta ſequatur ex poſitione illius arguit̃ ⁊ ponat̃. a. eque intenſum eſſe ſicut remiſſuꝫ ſicut ponit hec poſitio eẽ poſſibile: ⁊ remittat̃. a. ad nõ graduꝫ cuius remiſſio ſit. c. ⁊ ſit. b. intenſio ſub codẽ gradu vt prius ſub quo eſt. a. ⁊ intendat̃. b. eque ꝓportionaliter ſicut. c. maiorat̃: ⁊ ſit. d. gradus ſub quo nunc eſt. a. vt prius: quo poſito. c. maiorabit̃ in infinitũ: ꝗꝛ intenſio. a. remittet̃ in infinitũ: ⁊ eque ꝓportionabil'r ſicut intenſio a. erit minor: ſic remiſſio. c. erit maior. igitur in infinitum maiorabit̃. c. nunc ſic. b. c. nunc ſunt equales ⁊ eque ꝓpor' maiorabunt̃. ergo per primũ argm̃ cõtra iſtaꝫ poſitionem equeuelociter maiorabunt̃: ſed. c. ſolũ finite velociter maiorabit̃. igitur. b. ſolum finite velociter maiorabit̃. Ponatur ergo gratia exẽpli ꝙ. a. in hora ſic remittat̃ ad nõ gradum: ⁊ ſequit̃. b. per totã illam horã ſoluꝫ finite velociter intendi. Et ꝙ. b. in illa hora in infinitũ intendat̃ ꝓbo ſic. in infinitũ erit. c. remiſſio maior ꝙ̃ nunc eſt: eo ꝙ. a. remittetur ad nõ graduꝫ ⁊ ꝓpor' ſicut. c. erit maius ꝙ̃ nunc eſt: ſic. b. erit maius ꝙ̃ nunc eſt per caſum. ergo. b. in illa hora intenderet̃ in infinitum. igit̃ ſequit̃ cõcluſio. ¶ Aliter ad cõcluſionẽ eandem ſic arguit̃: ⁊ ponat̃ de. a. c. d. vt prius. ponatur tamẽ preciſe. b. equeuelociter intendi ſicut. a. remittetur. ⁊ pꝫ. b. ſolum finite velociter intẽdi. Et ꝙ. b. intẽdetur in infinitũ arguit̃ ſic. c. intendet̃ in infinitũ ⁊ ꝓpor' ſicut. c. erit maius. ſic. b. erit maius. ergo. b. intẽdet̃ in ifim̃. ꝯña tenet. ⁊ maior ſilr: ⁊ minor arguit̃ ſic. c. equeuelociter maiorabit̃ ſicut. a. remittet̃ per precarꝫ. ⁊. b. etiaꝫ equeuelociter maiorabit̃ ſicut. a. remittetur. ergo. b. ⁊. c. continue equeuelociter maiorabunt̃. ⁊ per cõſequẽs cõtinue erunt equalia per hoc ſi equalibꝰ equalia addantur: reſultantia erunt equalia: tũc arguit̃ ex ꝯñte. b. c. cõtinue erunt equalia: ⁊ omniũ equaliuꝫ ad 3m̃ eadem eſt ꝓportio. ergo cõtinue. b. ſe habebit in equali ꝓportione ad. d. ſicut ſe habebit. c. ad. d. ſed ꝓportio. c. ad. d. maiorabit̃ in infinitũ per precargm̃. igitur ꝓportio. b. ad. d. maiorabit̃ in infinitũ. ſed hoc nõ poteſt fieri. b. nõ maiorato in infinitũ. igit̃ ſequit̃ ꝙ. b. in iª hora maiorabit̃ in infinitũ ⁊ mc̃ ſolum finita intenſione. ergo ſequit̃ cõcluſio impoſſibilis ex iª poſitiõe cuꝫ caſu poſſibili eidez poſitioni nõ repugnante: ꝗꝛ omnis motus ⁊ etiã omnes qualitates eadeꝫ velocitate ⁊ eque ꝓ-
4 portionabil'r poſſunt intendi. ¶ Item ex poſitione poteſt argui oẽm graduꝫ remiſſionis infinite remiſſum exiſtere: vel infinite moc̃ remiſſum. ⁊ ponat̃ caſus penultimus de a. b. c. d. ⁊ arguit̃ vt prius. remiſſio. c. in infinitũ intendet̃. ⁊. b. eque ꝓpor' cõtinue maiorabit̃ cum. c. ergo. b. in infinitum intendet̃. ⁊ per cõſequẽs. b. acquiret latitudineꝫ infinitam. ⁊. c. eque ꝓpor' cõtinue maiorabit̃ cum. b. igit̃ per precargm̃ tantã latitudinẽ acquirit. c. ſicut. b. ⁊ per ꝯſequẽs c. acquiret latitudinẽ infinitaꝫ ⁊ nõ acquiret maiorem remiſſioneꝫ ꝙ̃ eſt inter ipſuꝫ ⁊ graduꝫ infinitũ remiſſionis. igit̃ inter. c. ⁊ gradum infinitũ remiſſionis eſt latitudo infinita: ⁊ per ꝯñs. c. per infinituꝫ diſtat a gradu infinito remiſſionis: etiã per ifinitũ diſtat a nõ gradu remiſſionis: ꝗꝛ per infinitũ diſtat a gradu infinito intẽſionis: qui eſt non gradus remiſſionis. Cuꝫ igit̃ remiſſio. c. penes appropinquationẽ nõ gradui intenſionis: vel gradui infinite remiſſionis qui idẽ ſunt hẽat attẽdi cũ. c. per ifinitũ diſtat ab hꝫ gradu ifinito remiſſionis: ſeqt̃. c. fore infim̃ modice remiſſuꝫ: ⁊ ſi remiſſio hẽat attẽdi penes diſtãtiã a nõ gradu remiſſionis ꝗ eſt gradus ifinite intẽſionis cũ iª laᵗᵒ ſit ẽt ifiᵗᵃ: ſeqt̃. c. fore ifinite remiſſuꝫ: ⁊ ſicut arguit̃ de. c. ita de quocũqꝫ alio gradu illius latiᵗⁱˢ eſt arguendũ. igit̃ qlꝫ gradus illꝰ latiᵗⁱ eſt ifinite remiſſus: vel ifinite moc̃ remiſſus. ꝯñs ſilr̃. igit̃ iª põ ꝗtũ ad ꝑmã ptẽ iprobat̃. ¶ Cõtra 2am̃ ptẽ ſunt arᵗᵃ que pro ꝑma ꝑõne ſunt adducta ⁊c̃.

Sequitur ꝙ 3ª põ ponẽs ꝙ nullus gradus eſt ita intenſus ſic̃ remiſſus. Pro cuꝰ ꝓbatiõe ſunt oĩa arᵗᵃ ꝗ̃ ſunt 3 ſcdaꝫ põneꝫ que illã põneꝫ vident̃ ſufficienter approbare. ¶ Cõtra ẽt iſtã põnem ſunt oĩa arᵗᵃ ꝗ̃ pro aliis põnibꝰ ſũt adducta. vñ iſta eſt iª quã iter ceteras reputo magis verã. ¶ Pro cuꝰ intellu eſt ꝑ notãduꝫ ꝙ remiſſio põt 2r̃ ꝯſiderari. Unoᵒ vt eſt ille gradus intẽſus vel vt eſt iª intenᵒ: ⁊ ſic eſt idẽ realr̃ intẽſio cum remiſſione vt argutũ eſt. Alioᵒ ẽt ꝯſiderat̃ remiſſio vt eſt ꝑuatiuũ reⁱ intenſionis. ꝑmoᵒ ſunt iª eadẽ ꝗ eſt ſic remiſſuꝫ: ⁊ ꝗ eſt ſic intenſuꝫ: ⁊ illoᵒ loquẽdo põt ꝯcedi ꝙ remiſſio hꝫ attendi penes id penes qđ hꝫ itenᵒ attẽdi: ⁊ ſic põt dici oẽꝫ gm̃ ita intenm̃ ſicut remiſſuꝫ ꝯſiſtere ꝯ quẽ moduꝫ loquẽdi rõnes ꝯ ꝑmã põneꝫ nõ ꝓcedũt: ille tñ modus nõ multũ vſitatꝰ: iõ loquẽdũ eſt de remiſſione ſcđo mõ dicta. ſ. put eſt qđ ꝑuatiuũ reⁱ itenm̃: ⁊ dõꝫ eſt ſm̃ iᵐ modũ nullꝰ gᵒ intẽſionẽ ſue remiſſioni correſpondere ſicut arᵗᵃ ꝯ alias põnes ꝓbãt ligde.

Sed quia iſtã põneꝫ narrare nõ ſufficit: iõ ad arᵗᵃ que vident̃ iᵐ põneꝫ iprobare ꝑmicꝰ eſt videndũ. ¶ Et ꝑ ad rõnẽ qñ arᵗ ꝙ aliqs gradus ſit ita intenſus ſic̃ remiſſus vt ſit. a. vnꝰ gradus: ⁊ tũc arᵗ ſic. vel eſt a. magis intẽſuꝫ ꝙ̃ remiſſuꝫ: vel minꝰ intenm̃ ꝙ̃ remiſſum. Si ſit magis intẽſuꝫ ꝙ̃ remiſſuꝫ ponat̃. a. remitti ad non gm̃: ſcꝫ ꝙ aliqñ erit ita intenm̃ ſic̃ remiſſuꝫ. Si ſit minꝰ itenm̃ ꝙ̃ remiſſuꝫ ponat̃ itenſionẽ intẽdi in ifim̃: ⁊ ſcꝫ ꝙ aliqñ erit ita intenm̃ ſicut remiſſuꝫ. Ideo pro iᵒ arᵗᵒ di ꝙ poſito ꝙ. a. ſit intenm̃ ꝙ ſua intenᵒ nec eſt maior nec eſt minor ſua remiſſione nec eſt ſibi eq̃lis: ꝗꝛ accĩᵈᵒ ꝑuatiue remiſſionẽ reⁱ intenᵉ. Si. n. foret maior vl' minor poſſet eẽ eq̃lis cuꝰ oppm̃ eſt ꝓbatũ. vñ ſicut di de ꝓpor' maioris ieq̃litatis ⁊ ꝓpor' minoris ineq̃litatis ꝓportiões nõ differũt realr̃ niſi tñ ſꝫ rõneꝫ: ſicut via ab. a. ad. b. ⁊ ẽ a. b. ad. a. eadeꝫ eſt ſꝫ rem: differũt tñ ſm̃ rõneꝫ. Conſilr̃ hitudo maioris ad minus: ⁊ hitudo minoris ad maꝰ ſunt eadẽ ſm̃ reꝫ: differũt tñ ſm̃ rõneꝫ ſeu ſm̃ reꝫ: ſunt eadem ſola rõne differẽtes. Conſilr̃ hitudo maioris ad minus ⁊ minoris ad maius ſunt eadeꝫ ſm̃ reꝫ ſola rõne differẽtes: ⁊ hitudo maioris ad minꝰ eſt ꝓporᵒ maioris ineq̃litatis: ⁊ hitudo minoris ad maius eſt ꝓporᵒ minoris ineq̃litatis: ideo iª ꝓportiões ſoluꝫ ſm̃ rõnem differũt: ⁊ ꝓportio maioris ineq̃litatis nõ eſt maior nec minor ꝓpor' minoris ineq̃litatis: diſtinᵈᵒ ꝓportioneꝫ maioris ineq̃litatis ꝯ ꝓportionẽ minoris ieq̃litatis: vt venerabilis magiſter Thomas õ Berduerdino in ſuo libro de ꝓportionibꝰ ligde declarat: fundando ſe ſup ſuppõnibus ⁊ paſſumptis. ſ. ꝙ oĩuꝫ duoꝝ ineq̃liuꝫ ad 3m̃ ⁊c̃. Oĩa ſe hñtia in eq̃li ꝓpor' ⁊c̃. Cõſilr̃ oĩno: ſicut dcm̃ eſt de ꝓpor' maioris ineq̃litatis ⁊ minoris ineq̃litatis: ſic dicẽdum eſt de inten' ⁊ remiſſione: diſtinguẽdo intenm̃ ꝯ remiſſioneꝫ accĩᵈᵒ. ſ. remiſſionẽ ꝑuatiue reⁱ intẽſionis: ⁊ ſic ꝓpor' dõm eſt de magnitudine ⁊ paruitate: ⁊ de oĩbus quoꝝ vnũ priuatiue reⁱ alterius ſe hꝫ: ſeu de oĩ latitudine poſitiue ⁊ priuatiue cõſiderata: ꝙ ſi poſitm̃ ⁊ ꝑuatiuũ vt ſic capiantur: nulla cõparatio eq̃litatis vl' ineq̃litatis inter iª poterit reperiri: ⁊ ſic dictũ eſt ꝙ nullius intenᵒ remiſſione eiuſdem gradus eſt maior vel minor vel eq̃lis: ſicut nulla ꝓportio maioris ineq̃litatis eſt maior nec minor ꝓportiõe minoris

Tertia põ inter alias verior.

Remiſſio dupl'r conſiderat̃.

Ad argumẽta ſcde põnis.

Intẽſio remiſſiõi nõ eſt comparabilis ſꝫ equale vel ineq̃le nec ꝑuatiuum poſitiuo.

ineq̄litatis: nec ei equalis. ꝛ ideo cū ponit̄ ꝙ .a. ſit vnius inten̄: ꝛ querit̄ vtrū .a. ſit magis intēſus ꝙ̄ remiſſus vel minus inten̄ ꝙ̄ remiſſus: vel poſſit eē ita inten̄ ſicut remiſſum: ne⁹ eſt diuiſio pro quacūq₃ eius pte: ꝛ ſic nō ꝓcedit iſ ar^m ꝯ iſ^{us} pōnē.

Ad argumēta ꝓ ꝑte poita. ❡ Jō ad arg^a que fuit pro p^a pōne ꝛ ꝯ iſtaʒ pōnēʒ qñ arguit̄ ꝙ remiſſio attēdit̄ penes appropinquationē nō g^{us} inten^{is} ꝛ intēſo attēdit penes diſtātiā: ſed tanta eſt diſtātia ſicut ꝓpinqtas cuiuſcūq₃ gradus ad nō gradū: qꝛ eadē eſt realr̄ diſtantia iſ cū hō ꝓpinqtate. igit̄ oīs g^s eſt ita intēſus ſicut remiſſus.

Nota ꝓpinquitas nō gradui intenſionis ꝑuatiue ſe hʒ reſpcū diſtāie ad eundem nō gradū. Jdeo di ꝙ ꝓpinqtas iſ pōt accipi ꝑuatiue re^a diſtātie: ꝛ ſic accipiēdo ꝓpinqtateʒ ꝑuatiue attēdit̄ remiſſio penes ꝓpinquitateʒ nō gradu: ꝛ acci^{do} diſtantiā poſitiue a nō gradu: tunc penes illaʒ attenditur intenſio gradus: ſed ſic accipiēdo ꝓpinqtatē alicui⁹ nō gradui iſ ꝓpinquitas nō eſt tanta ſicut diſtātia euiſdē gradus a nō gradu: nec ea maior nec minor, ꝙ̄uis realiter eadeʒ res ſit ꝓpinquitas ꝛ diſtātia vt ꝑdictū eſt de oī ꝑuatiuo reſpectu ſui poſitiui. Et ideo ar^m nō arguit remiſſionē equaleʒ intēſioni. nec vnā caꝫ a^a maiorē cōſiſtere: qꝛ propinquitas nō gradui ꝛ remiſſio que penes eā attenditur: ꝛ diſtātia a nō gradu penes quā attēdit̄ intēſio: vt preciſiꝫ eſt ſm equalitatē vl' inequalitatē cōparabileʒ nō exiſtūt: eo ꝙ ꝓpinquitas vt ſic reſpectu diſtātie accipit̄ ꝑuatiue: ꝛ tunc ad iſ arg^m cuꝫ arguit̄ ꝙ eadeʒ realr̄ eſt intenſio cuꝫ remiſſione. igitur iſ gradus eſt ita intenſus ſicut remiſſus, negat̄ ꝯña: qꝛ idem eſt realr̄ ꝓportio maioris inequalitatis cū ꝓportione minoris inequalitatis: ꝛ tñ diſtinguendo vnaꝫ ab alia ſm rōneʒ, neutra alteri eſt equalis: ſed incōparabiles ſunt ꝙ de intēſione ꝛ remiſſione ꝛ de quocūq₃ ꝑuatiuo cū ſuo poſitiuo ꝓpor' eſt dicēdum. Et ſic ſoluūtur oīa ar^{ta} que ſunt facta cōtra illam pōneʒ: qꝛ oīa fundātur ſuper hoc ꝙ iſ penes qð attēdit̄ remiſſio, illi penes qð attendit̄ intenſio ſm equalitatē ꝛ inequalitatē cōparant̄: qð tñ vt remiſſio penes iſ attendit̄: vniſor' eſt negādū.

Dubitationes hic mōte ponētes. p^{ma}. 2^a 3^a

His ergo cōpletis poſitionib⁹ in iſta mā reſtat vlterius dubitādū. Nunqd ex vniformi deperditione intenſionis ſequat̄ vniformis acqſitio remiſſionis. ❡ Secūdo vtrū eque ꝓpor' ꝛ equeuelociter maioretur remiſſio ſicut intenſio minorat̄. ❡ Tertio: nunqd ſi a nō gradu remiſſionis incipiāt aliqua duo equeuelociter cōtinue acqrere de remiſſione cōtinue manebūt eque remiſſa.

Cōtra p^{mam}. ❡ Contra p^{mū} ſic arguit̄. Ponat̄ .a. vniformiter deperdere intenſionē ad ſubduplū gr̄a arg^{di}: ꝛ arguit̄ ꝙ remiſſio nō vniformiter acqret: qꝛ ꝓpor' ſicut intēſio erit minor: ſic remiſſio erit maior: eo ꝙ propor' ſicut aliqd eſt a^a minus intenſum: ſic eſt remiſſius codeꝫ. Sed ſi intenſio vniformiter remittet̄ ad ſubduplū in inſtāti medio erit in ſexquialtero h^{re} ꝙ̄ in p̄n^o: vt ſi nūc ſit vt q̄tuor: ꝛ vniformiter remittit̄ ad duo in inſtanti medio erit vt tria ad q̄tuor in ſexquialtera ꝓportione ſe hñt. Cuꝫ igit̄ ꝓpor' maioret̄ remiſſio ſicut intēſio minorat̄, ſequit̄ ꝙ in inſtāti medio remiſſio ꝑcise in ſexquialtero erit maior ꝙ̄ in p̄ncipio: ꝛ per ꝯñs velocı⁹ maiorabit̄ in ſcḋa medietate tpis ꝙ̄ in p^a: ꝛ ꝑ ꝯñs nō vniformiter. ꝯña tenet: vt ſi nūc ſit remiſſio vt nouē ꝛ maioretur ad ſuum du^m qð eſt .xviij. ſi in inſtāti medio erit in ſexquialtero maior ꝑcise ꝙ̄ nunc eſt: ſequit̄ ꝙ in inſtāti medio erit vt .xij. eo ꝙ .xij. ad .ix. eſt ꝓportio ſexquialtera: ꝛ per ꝯñs in prima medietate ſui tpis non acqret niſi 3^a: eo ꝙ .xij. nō excedunt .ix. niſi per 3^a: ꝛ in toto tpe in quo maiorabit̄ ad .xviij. acqret .ix. eo ꝙ .xviij. excedunt .ix. per .ix. igit̄ ſequit̄ ꝙ in ſcḋa medietate illius tpis acquiret .vi. ꝛ ſic plus acqret in ſcḋa medietate tpis ꝙ̄ in p^{ma}: ꝛ per ꝯñs nō vniformiter maiorabit̄. igit̄ pars

Ad partē affirmatiuam. affirmatiua iſtius dubitatiōis eſt falſa. ❡ Nunc ꝙ arguit̄ partē affirmatiuā fore verā ſi vniformiter deperdet̄ intēſio vniformiter remittet̄ illud qð illeꝫ intenſionē deperdit: qꝛ ex quo remiſſio reſpectu intēſionis ſe hʒ ꝑuatiue, non eſt aliud vniformiter remitti ꝙ̄ vniformiter deperdere intenſionē: ꝛ ſi vniformiter remittit̄ intēſio, vniformiter acqretur remiſſio: qꝛ nō eſt a^d aliqd vniformiter acqrere remiſſionē ꝙ̄ vniformiter remitti. ergo ſi vniformiter deperdatur intenſio: vniformiter acqrit̄ remiſſio: qꝛ acqrere remiſſionē nō eſt aliud ꝙ̄ deperdere intēſionē. ideo iſta dubitatio vi eſſe pro pte affirmatiua vera.

Ad ſcḋaꝫ dubitationē pro pte affirmatiua. Ad ſecūdam dubitationē arguit̄. Et pbat̄ p^{mo} pars a^{ua}. ꝛ p^{ma} pars illius dubitationis primo arguit̄. ſ. ꝙ eque ꝓportionabilr̄ maiorat̄ remiſſio ſicut intenſio minoratur: quia propor' ſicut intenſio alicui⁹ eſt minor, ſic ipſuꝫ eſt remiſſius: vt conſtat per pccar^{m}. ꝛ ꝓpor' ſicut totū eſt remiſſius: ſic ſua remiſſio eſt maior vt pꝫ. igit̄ ꝓportiōabilr̄ ſicut intenſio eſt minor: ſic remiſſio eſt maior: imo ſemꝑ ſicut poſitiuū eſt min⁹, ſic eſt maius ſuū ꝑuatiuū. ergo p^{ma} pars eſt vera. ❡ Pro ſcḋa parte etiā eſt arg^m. nam ſicut intenſio minorat̄: ſic totum remittit̄ vt pꝫ: ꝛ ſicut totū remittit̄: ſic velociter maiorat̄ remiſſio. ergo ita velociter maiorat̄ remiſſio ſicut intēſio minorat̄: ꝛ ſequit̄ iſta dubitatio q̄tū ad p̄tē affirmatiuā.

Ad ptem negatiuā. ❡ Ad p̄tē negatiuā ſic arguit̄. Si intēſio remittit̄ vniformiter maiorē ꝓportionē deꝑdet in ſcḋa medietate tpis ꝙ̄ in p^a: qꝛ ſi nūc ſit vt q̄tuor ꝛ remittat̄ vniſor' ad duo: in p^a medietate remittet̄ ſolum ad 3^a. igit̄ in p^a medietate ſoluꝫ deperdet ꝓportionem ſexquialterā: ꝛ in 2^a medietate deꝑdet ꝓportioneꝫ ſexquialterā que eſt a 3^{bus} vſq₃ ad duo. ꝙ maiorē ꝓportionē deꝑdet inten^o in 2^a medietate tpis ꝙ̄ in p^{ma}. Sed ſi remiſſio equeuelociter maioraret̄ ſicut inten^o remittit̄. ergo ſi inten^o vniſor' remitteret̄: remiſſio vniformiter maiorabit̄: ꝛ ſi remiſſio vniformiter maiorabitur maiorē ꝓportionē acqret in p^a medietate tpis ꝙ̄ in ſcḋa: per hoc ꝙ eq̄lis exceſſus plus addit de ꝓportiōe reſpcū minoris ꝙ̄ reſpcū maioris. ſequit̄ igit̄ ꝙ ſi inten^o maioreꝫ ꝓportionē deperdet in 2^a medietate tpis ꝙ̄ in p^a: ꝛ remiſ^o maiorē ꝓportionē acqret in p^{ma} medietate tpis ꝙ̄ in 2^a: ꝙ nō eque ꝓportiōabilr̄ maiorat̄ remiſſio ſicut minorat̄ inten^o. Sed ſi vniformiter ꝛ equeuelociter minoret̄ inten^o ſicut maiorat̄ remiſſio: ſeq̄t̄ ꝙ ſi inten^o vniſor' minoret̄ ꝙ remiſſio vniſor' maioret̄. Ex quo ſeq̄t̄ ꝙ non eque ꝓportionabilr̄ minorat̄ inten^o ſicut maiorat̄ remiſſio.

Ad tertiā dubitatiōnē pro pte affirmatiua. Ad tertiam dubitationeꝫ arguit̄: ꝛ p^{mo} arguit̄ ꝓ affirmatiua. Si .n. aliq̄ a nō gradu remiſſionis incipiāt remitti ꝛ ꝯtinue equeuelociter acqrent remiſſionē ꝯtinue habebūt ꝑciſe equalr̄ de remiſſione: ꝛ per ꝯñs ꝯtinue erūt ſub eodeꝫ gradu remiſſionis: ꝛ ꝑ ꝯñs ꝯtinue erūt eque remiſſa. g̃ vꝫ iſ^a pars ſequi.

Ad ptem negatiuā. ❡ Cōtra quā ar^r ꝛ ponat̄ ꝙ .a. nūc ſit in du^o inten^o .b. ꝛ intēdant̄ in iſ^a hora equeuelociter in inſi^m. ꝛ ſeq̄t̄ ꝙ eque cito deuenient ad gradū inſi^m: qꝛ ſi nō capiat̄ iſ inſtās in quo .a. deueniet ad graduꝫ inſi^m. ꝛ ſeq̄t̄ ꝙ ſi .b. tunc nō erit ſub gradu infinito ꝙ nūc in inſi^m excedet .a. b. ſed ꝯñs eſt falſum: qꝛ ex quo cōtinue equeuelociter intēdet̄, ſeq̄t̄ ꝙ .a. cōtinue excedet .b. equalr̄ ſicut nūc ipm excedit ſicut ſatis cōſtat: tunc .a. ꝛ .b. ꝑ totū iſ tps equeue' deꝑderēt remiſſionē: eo ꝙ ꝯtı⁹ eq̄ue' acqrerēt inten^{em}. ꝛ nō eſt aliud equeue' deꝑdere remiſſionē ꝙ̄ equeue' acqrere intenſionē: ꝛ .a. cōtinue erit intenſius .b. ꝛ .b. remiſſius .a. tūc ſic. A. ꝛ .b. eq̄ue' deꝑdēt remiſſionē: ꝛ equecito deuenient ad nō graduꝫ remiſſionis: qꝛ equecito deuenient ad infinitū gradum intēſionis qui vt argutum eſt nō gradus remiſſionis. ponat̄ ergo ꝙ in hora cōpleat̄ huius inten^o ꝛ ſit nūc gr̄a argumēti finis illi⁹ hore. ꝛ ponat̄ .a. b. cōtinue per vnā aliaꝫ horā ꝯſimilr̄ oīno remitti ſicut ante hoc intēdebat̄. ꝛ ſequit̄ ꝙ .a. b. a nō gradu remiſſio-

nis incipiunt acqrere remiſſionē: ⁊ cōtinue equeuelociter acqrent .a.b. remiſſionem vt pꝫ eo ꝙ prius equeuelociter deperdebāt remiſſionē: ⁊ nunc cōſimilr acqrunt ſicut prius deperdebāt. ergo nūc cōtinue equeuelociter acqrent .a.b. remiſſiones. ⁊ .b. cōtinue erit remiſſi⁹ .a. ergo dubitatio eſt falſa. ⁊ ꝙ .b. ꝯtinue erit remiſſius .a. pꝫ: qꝛ in pͥma hora in via intenſionis fuit .b. cōtinue remiſſius .a. ⁊ nūc continue erit vtrūqꝫ eque remiſſiuꝫ ſicut fuit in via intēſionis. ergo iª dubitatio non eſt vera.

Rñ ad pͥmam dubitationem. **Ad primam** dubitationē rñdeť ⁊ cōcedať pars affirmatiua: cōcediť etiā totū vſqꝫ ibi: ꝙ in inſtāti me⁹ erit remiſſio in ſexquialtero maioꝛ q̄ꝫ in pͥn⁹. ⁊ iᵈ ſimilr eſt cōcedenduꝫ ⁊ neganda eſt ꝯñtia: ⁊ qñ vlteri⁹ ex i⁰ arguiť ꝙ plus acqret in z⁰ medietate tꝑis q̄ꝫ in pͥma, negať iª ꝯña: imo de oi poſitiuo qḋ debet intēdi ſatis tenet ⁊ nō aliter. Et nunc ad exᵐ qñ ponitur ꝙ remiſſio erit vt .ix. admittať. ⁊ qñ arguiť ꝙ in fine erit vt .xviij. ⁊ ħ debet negari: imo dicetur ꝙ in fine erit vt .iiij. ⁊ medietas vnius: ⁊ ſic gradus vt duo priuatiue eſt duplus ad gradū vt .iiij. ⁊ ideo ſi nunc ſit remiſſio vt .iiij. ⁊ dꝫ fieri dupla in fine eſt vt duo: ⁊ ſic ſemꝑ fiet remiſſius ſicut plus appropinquabit nō gradui ſiue latitudinis poſitiue: ⁊ ideo ſi remiſſio nūc ſit vt .iiij. ⁊ vniformiter maioreť ad duᵐ in inſtāti medio erit vt 3⁰: ⁊ in fine erit vt duo: ⁊ ſic nō ſequitur in inſtāti medio erit remiſſio in ſexquialtero maioꝛ p̄ciſe q̄ꝫ in pͥn⁰ ⁊ in fine in duplo maioꝛ q̄ꝫ in pͥn⁰. ergo plus acqret in medietate ſecunda tꝑis q̄ꝫ in pͥma: de omni tamē poſitiuo bene tenet argumentum.

Rñſo ad ſcḋaꝫ dubitationē. **Per hoc** ad ſcḋam dubitationē eſt dicēduꝫ forte cōcedendo parteꝫ affirmatiuā: ⁊ conceditur totum vſqꝫ ad iᵈ qñ arguiť ſi remiſſio vniformiter maiorabiť plus ꝓpoꝛʳ acquiret in pͥma medietate tꝑis q̄ꝫ in ſcḋa. negāda eſt ꝯñtia: imo ſequiť oppoſitū vt patet per rñſioneꝫ prepoſitā: vt ſi nunc ſit remiſſio vt .iiij. ⁊ vniformiter maiorabiť ad duplum in inſtāti medio erit vt tria: ⁊ ſic nō acquiret niſi ꝓportionē ſexquialterā in prima medietate tꝑis: ⁊ in ſcḋa ſexquialterā vt ſatis cōſtat cōcedenduꝫ. De poſitiuo ſatis valet modus arguēdi: qꝛ ſi poſitiuū nūc ſit vt .iiij. ⁊ maiorabiť vniformiter ad duᵐ ſui in fine erit vt .viij. ⁊ in inſtāti medio vt .vi. ⁊ in pͥma medietate tēporis acqret ꝓportionē ſexquialterā: ⁊ in ſcḋa ſexquialteram ſoluꝫ. vñ cū aliqs ponit remiſſionē maiorari nō alio mō intelligiť niſi intenſionē illo mō remitti vel deꝑdi.

Rñſo ad tertiaꝫ dubitationē. **Ad tertiam** dubitationē diciť ꝙ iſta eſt vna cōditionalis īpoſſibilis: ⁊ nūc qñ arʳ ſi cōtinue equeuelociter acqrerent remiſſionē vnū cōtinue tñ habebit de remiſſione ſicᵗ aᵈ. negať ꝯña. Si tñ latitudo inter aliquē graduꝫ remiſſionis ⁊ nō gradum remiſſionis foret finita optime valeret arᵐ. Nunc aūt eſt latitudo hȯ infinita inter oēm graduꝫ ⁊ nō graduꝫ remiſſionis vt prius eſt arguū. ideo arᵐ nō valet vt p̄dictū. ¶ Rñſio zᵉ

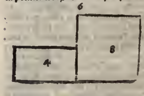
Cōtra rñſionem. dubitationis ſic improbať. data iſta ſequiť ꝙ cuiuſlꝫ q̄litatis intenᵐ ad remiſſioneꝫ eſt ois ꝓportio poſſibilis maioris inequalitatis ⁊ minoris iequalitatis ⁊ ecōuerſo tāq̄ꝫ ꝓportio totalis: vel ꝙ ois gradus ſit ita intenſus ſicut remiſſus. ¶ Et pͥma includat cōtradictionē ſatis conſtat: ⁊ ſcḋa ps eſt īprobata: ⁊ ꝙ altera ſequať arguiť. Si eniꝫ remiſſio gradus ſignata per vnuꝫ numerū maioretur: ⁊ per maiorationē taleꝫ maioreť numer⁹: vt ſi remiſſio foret vt duo ⁊ creſceret ad duᵐ: ⁊ tunc eſſet ſub gradu vt quatuoꝛ: tunc ſequiť pͥma pars diſiunctiue. Si aūt ponať ꝙ remiſſione maiorata numerus per quē ſignať minoreť: vt ſi remiſſio vt duo maioreť ad duᵐ: ⁊ in fine erit vt vnū: vt p̄dicitur: tunc ſequiť ſcḋa pars diſiunctiue. Primū ſic arguiť: qꝛ ſigne⁹ grā arᵈ gradus cuius inten⁹ ſit vt .iiij. ⁊ arguiť ꝙ remiſſio ſit vt duo preciſe: qꝛ minoreť inten⁹ vſqꝫ ad duo: ⁊ arguiť ſic. Intenſio minorabiť ad ſubdupluꝫ per deꝑditioneꝫ binarij: ⁊ equeuelociter ⁊ ꝓpoꝛʳ iuxta rñſioneꝫ dataꝫ maiorať remiſſio ſicut minorať inten⁰. ergo remiſſio maiorať ad duᵐ per acq̄ſitionē binarij: ſꝫ nihil creſceret preciſe ad duᵐ per acq̄ſitionē binarij niſi duo: qꝛ omne mai⁹ binario nō creſceret ad duᵐ: ⁊ minus duo creſceret vltra duᵐ ꝑ acq̄ſitionē binarij. ergo remiſſio in pͥncipio erit vt duo. ¶ Conſilr arguiť ꝙ remiſſio nūc ſit vt vnum: qꝛ minoreť intenſio vſqꝫ ad vnū: ⁊ ſequiť ꝙ intenſio decreſceret vſqꝫ ad ſubquadrupluꝫ per deperditionē ternarij: ⁊ ſi ſic remiſſio creſceret ad quadrupluꝫ per acq̄ſitioneꝫ ternarij vt arguū eſt prius de cremēto ad duᵐ: ſed nihil creſceret ad quadrupluꝫ per acq̄ſitioneꝫ ternarij niſi vnum. ergo remiſſio eſt vt vnuꝫ. ¶ Conſilr arguiť de omni alia ꝓportione ſemꝑ minorādo iᵃᵐ intenſionē ad iſtū graduꝫ. ¶ Per ideꝫ arguiť ꝙ remiſſio ſe hꝫ in ꝓportione maioris inequalitatis ad intenſioneꝫ: ⁊ hoc quacūqꝫ ſignata intenſione. ſ. maiorādo intenſionē ad quēcūqꝫ gradū volueris ꝓbando vt prius ꝙ remiſſio eſt ſub i⁰ gradu ſub quo eſt iſta inten⁰ in fine. Pꝫ igiť ꝙ ex pͥmo modo loquēdi de maioratione remiſſionis formalr ſequiť prima ps diſiunctiue. Et ꝙ ex alio mō loquēdi ſequať alia ps ſic arguiť. ſit inten⁰ vt .iiij. vt prius ⁊ minoreť ad ſubdupluꝫ. ſ. ad duo. ⁊ ſeqꝫ ꝙ remiſſio acqret pͥuatiue duo vel deperdet: ⁊ per illam acquiſitionē que potius diceret deperditio: creſcet remiſſio ad duplū. igiť remiſſio iſta que creſcit ad duplū: nūc eſt vt .iiij. nihil eniꝫ creſceret ad duplum poſitiue per acquiſitionē binarij niſi duo. ḡ per ideꝫ nihil creſceret ad duᵐ priuatiue per deperditionē binarij niſi in pͥncipio ſit vt .iiij. ḡ remiſſio i⁰ nunc eſt vt .iiij. ⁊ per ꝯñs iᵉ gradus eſt ita intēſus ſicᵗ remiſſus: qḋ fuit ꝓbādum. ¶ Iō dī ꝙ ſicut intēſio ⁊ remiſſio vt p̄dictū nō ſunt adinuicē cōparabiles ſm eq̄litatē vel ineq̄litatē: ſic nec mot⁹ ad intenſionē ⁊ remiſſionē debēt adinuicē cōpari. Si .n. mot⁹ ſūt cōꝑabiles: acq̄ſita per illos mot⁹ ſunt cōꝑabilia: ⁊ ſic negať ꝙ equeuelo ͬ maiorať remiſſio: ſicut minorať inten⁰: ⁊ cōcediť tñ ꝙ eque ꝓpoꝛʳ ⁊c̄. ¶ Et ad arᵐ remiſſionem maiorari eſt intenᵉᵐ remitti. ḡ equeuelociter ⁊c̄. negať ꝯña: ſicut ȯ ꝓpoꝛᵉ Mot⁹ ad intēſioneꝫ ⁊ mot⁹ ad remiſſiones nō ſūt inuicē cōparabiles ſm equale vel inequale.

maioris ineq̄litatis ⁊ minoris inequalitatis: qꝛ ꝓportionē minoris ineq̄litatis maiorari eſt ꝓportionē maioris ineq̄litatis minorari: ⁊ tñ nō equeue ͬ nec tardius nec velocius maiorať: qꝛ tunc nēcio ſequiť ꝙ ꝓportio maioris ineq̄litatis ꝓportiōe minoris ineq̄litatis eſt maioꝛ vel minoꝛ: vel ſibi eq̄lis. ꝯñs tñ eſt falſuꝫ pro qualꝫ ei⁹ pte: ⁊ ſic ſoluiť qḋ: qꝛ fūdať ſuꝑ falſo. ſ. ꝙ equeuelo ͬ remiſſio acqriť ſicut minorať intēſio qḋ tñ eſt negāduꝫ. Si tñ cōtra hoc arguatur ſic in argumētis factis ꝫ alias pōnes capitur illud qḋ hic negať. igiť iſta argᵗᵃ nō ꝓcedunt. negať ꝯñtia: qꝛ ponētes alias pōnes cōcedūt cōparationē intēſionis ad remiſſioneꝫ ſm eq̄litatē vel ineq̄litatē: ideo ꝫ illos ſatis bñ capiť acq̄ſitionē intēſionis adequari deperditioni remiſſionis: lꝫ tñ hec pō illud neget. ¶ Cōtra hoc obijciť: ſic ſtat ꝙ remiſſio alicuius gradus vt .iiij. ſit. ⁊ intēſio alic⁹ gradus vt .iiij. ḡ videť ꝙ ille ſunt equales. negať ꝯña: qꝛ nō ſunt cōparabiles vt ſic: ſicut ante pluries eſt arguium.

¶ Tractatus ſecundus de diſſormibus.

Habito penes qḋ in gnāli attendiť inten⁹ rei. ingrenduꝫ eſt qualr in diſſormib⁹ eſt dōꝫ. ¶ Pͥo arguiť latitudinē caliditatis vniformiter diſſormē: ſeu ē diſſormiter diſſormē: cuius vtraqꝫ medietas eſt vniformis: ⁊ calíduꝫ vniformiter diſſorme ſuo gᵘˢ medio correſpōderet: ⁊ hoc ſic iuxta ponētes iᵃᵐ pōneꝫ. Capiať talis caliditas ſeu tale calm: ⁊ remittatur vna medietas ad gᵐ. Pͥa pō.

meᵐ:ꝛ intēdat aᵃ ad meᵐ equeuelo:ꝛ ſic totū nō intendi nec remitti:eo ꝙ tantā latitudinē acq̄ret ſꝫ vnā medietatem ſeu pᵗē:ſicut deꝑdet ſm aliā ꝑtem equalem: ꝛ in fine erit vniforme ſub tali gradu medio.igit̄ nūc corrīdet tali gradui. ¶ Primo arguit̄ ex illo añte cū vno nāli ſuppoſito ſequi oppᵐ ꝯñtis:ꝛ ſuppono cū hoc ꝙ calidū igneū ſic̄ calefacit ſic rarefacit: illud ſeq̄t̄ ex pluribꝰ dictis Phi in multis locis phie. Fit.n.cōdenſatio nālr a frido cōprimēte:ꝛ rarefactio a calido extendente: vt pꝫ pᵒ ꝛ 4ᵒ metheororū.ꝛ 2ᵒ de gnōne.tūc ſic arguit̄. Medietas remiſſior caleſcit:ꝛ alia frigeſcit:ꝛ iam iſte due medietates ſunt eq̄les.ḡ medietas remiſſior cōtinue poſt hoc erit maior medietate intenſiori: eo ꝙ remiſſior rarefiet ꝛ alia cōdenſabitur. igit̄ per maiorē ꝑtem totius per totū tēpus cōtinue erit intenſio q̄ remiſſio:ꝛ hoc eodē gradu vel eadē latitudie. Fit.n.gr̄a exᵗ ꝙ in ꝓncipio vtraqꝫ medietas ſit vniformis. ḡ totū ꝯtinue intēdet̄:ꝛ in fine erit vnifor ſub gradu meᵒ inter illas medietates.ḡ nunc eſt remiſſius iᵒ gradu meᵒ. ergo illud exemplum ſupponit ſlm taꝫ in antecedente q̄ in poſitione:ꝛ ex caſu nō ſequit̄ poſitio ſed eius oppoſitū.



¶ Ideo forte di negādo ꝯñtiaꝫ.ſ. per maiorē partem erit intenſio q̄ remiſſio.ergo totū intendet̄.q2 ꝛ ſi per maiorem partē erit intēſio q̄ remiſſio:tñ maioratio medietatꝭ remiſſioris facit ad remiſſionē totius:ideo ſtat totum nō intēdi nec remitti. ¶ Illud nihil ē:q2 totū ꝯtᵉ erit remiſſius q̄ eſt gradus medius inter illos gradus per eandem pōnē:q2 cōtinue poſt hoc erit iᵃ pars que nūc eſt medietas remiſſior maior alia:ꝛ vtraqꝫ medietas eſt vniformis vel vniformiter difformis:vel cōſimilr difformis equalr diſtans cuꝫ aᵃ a gradu medio.igitur cōtinue erit remiſſius q̄ iᵉ gradus medius:q2 ſi iſte ꝑtes pro quolꝫ inſtāti forent equales cōtinue:tunc totū correſpōderet gradui medio ꝑ pōnem:ſed nunc correſpōdet gradui remiſſiori q̄ tūc:eo ꝙ pars remiſſior eᵗ ꝯtᵉ maior intenſiori pte. ergo iſta rñſio nulla.

2ᵒ ¶ Silr dato igneo calido vnifor difformitalterato eodeꝫ gradu per totum nunq̄ maneret illud vnifor difforme:eo ꝙ equeuelox foret rarefactio ꝛ itēſio: ꝛ equeuelox rarefactio vel intenſio in minus raro plus facit ad eius maiorationē q̄ in intenſiori ꝛ magis raro ſibi equali: vel ecōtra iuxta opiones diuerſas: vt infra patebit. igitur medietas illius remiſſior contiᵉ erit maior meᵗᵉ intenſiori hñs latitudinē q̄ˡᵉ equaleꝫ vl ecōtra.igit̄ ſubito totū fiet difformiter difforme: ꝛ alia multa ſequūtur iuxta cōem modum loquēdi.

3ᵒ ¶ Et ſilr ſequit̄ ſi aliqd ſit vnifor difforme terminatū ad ſummū ꝛ alteratū eodem gradu per totum ſequit̄ ꝙ velocius ꝛ velociꝰ inducet̄ gradus ſummus. Iſte tamē vltime cōcluſiones ſequent̄ iuxta omneꝫ pōnē:ideo de his nō eſt cura. ¶ Ex pᵐa igit̄ pōne hic ꝙ oē calidū vniformiter difforme eſt remiſſius q̄ gradus medius eiuſdeꝫ:ꝛ oē fridū intēſius.pᵐa pars arguebat̄ ꝓus:ꝛ 2ᵃ ꝓbat̄ ſic. Remittat̄ medietas intēſior ad meᵐ ꝛ intēdat̄ equalr aᵃ medietas:tunc pars remiſſior cōdenſabit̄ eo ꝙ frigeſiet:ꝛ alia.ſ.intenſior rarefiet:ꝛ per ꝯñs ꝯtᵉ per maiorē partē eᵗ remiſſio friditatis q̄ intenᵒ ꝛ eodem gradu.igit̄ totū ꝯtᵉ remittet̄:ꝛ in fine erit vnifor ſub gradu meᵒ.ergo nūc eſt intēſius q̄ gradus medius: ideo nec de calido nec de aᵒ qualificato ꝓcedit argᵐ. Nec tenet de caliditate:q2 ſi loqmur de qualitatiua medietate notū eſt ꝙ iᵉ diue medietates ſūt eque intēſe: ꝛ per ꝯñs nᵐ eſt meᵐ inter illas medietates.ideo ſi vna medietas itēſius equeuelr intenderet̄ ſicut remitteret̄ aᵃ tota q̄litas cōpoſita ex iſtis ꝯtᵉ maneret tanta ſicut nūc:ꝛ nō in fine foret vniformis ſub gradu meᵒ inter illas medietates: q2 nuᵒ eſt iᵉ gradus:imo foret q̄litas vniformis ſub eodeꝫ gradu ſub quo nūc eſt.ꝛ arᵉ illaꝫ hīe medietates intēſiuas equales:ꝛ etiā ꝙ ſit vniformis:q2 qōlꝫ diſtās a nō q̄to ſeu a nō q̄titate per ſeipſuꝫ ſolū diſtat ab iᵒ nō q̄to:ſicut pedale ꝑ pedale: ꝛ viij.pedale per.viij.pedale: ꝛᵉ de oī q̄titate.igit̄ omnis q̄titas eſt latitudo iᵃ iter ſeipſaꝫ ꝛ nō gᵐ: ꝛ per ꝯñs ſic eſt de q̄litate.ꝯña tenet:q2 ita vere q̄litatiue cōpoʳ q̄litas ſeu gradus q̄litatis ex oībus gradibꝰ ſuis:ſicut q̄titas ex ſuis ꝑtibꝰ cōpoʳ q̄tiᵗᵉ ſicut ſupra arʳ. Itē latitudo cōpoʳ ſolum ex oībus gradibꝰ inter extremū intēſius ꝛ nō gradū:ꝛ gradus terminās illaꝫ latiᵗᵐ p̄ciſe ex eiſdeꝫ gradibꝰ cōpoʳ. ergo iᵃ latitudo eſt gradus qui cōiter poʳ terminare illam latiᵗᵐ ſicut latitudo a gradu ſummo vſqꝫ ad nō gradū eſt gradus ſummꝰ. Ex quo appꝫ eē ideꝫ velocitatē aliquaꝫ attēdi penes illaꝫ latiᵗᵐ ꝛ penes gradū. Et ideo ponentes vnaꝫ poſitionē hñt ponere aliaꝫ:ꝛ ſic ſequit̄ oēm latitudinem fore gradū cōtinentē oēs gradus illius latitudinis: ſed cuiuſlꝫ gradus medietates ſunt eque intēſe. igit̄ etiaꝫ cuiuſlibꝫ latitudinis medietates ſunt eque intenſe: ꝛ ſicut oīs gradus eſt vniformis:ſic quelꝫ latitudo eſt vniformis. Si vo loquamur de medietate latitudinis q̄titatiua notum eſt ꝙ medietas remiſſior q̄titatiua nil facit ad intenſionē qualitatis:eo ꝙ iᵃ āmota maneret qualitas tāta ſicut nūc:eo ꝙ gradus ꝯtinēs oēs gradus illius latitudinis maneret:ꝛ ideo intēſio illius ꝑtis q̄titatiue nihil faciet ad intenſionē totius qualitatis:q2 intēſiue ex iᵃ ꝛ alia medietate nulla qualitas cōponit̄ ſed ſolū quātitatiue: ꝛ ideo tota qualitas remitteretur eo ꝙ pars deperdita in medietate intenſiori facit qualitatiue ad totiꝰ qualitatis remiſſionē: ſed qualitas acquiſita in remiſſiori medietate nihil facit qualitatiue ad totā qualitatē: ſicut ſi capeʳ vna longitudo pedalis:ꝛ ſi ad latus eius adderet̄ tanta longitudo vl minor tota longitudo nō maioraret̄:eo ꝙ tali mō addit̄: qō nō pōt maiorare illam dimenſionē vt ſic. Et ideo ſi detur corpus pedalis longitudinis:cui ſi addit̄ ſemipedalis ſm latitudinē totū adhuc dī pedalis lōgitudinis vt dictū eſt. Et ſi iſta ſemipedalis longitudo maioret̄ ſm longitudinē quouſqꝫ ꝯtineret tres q̄rtas pedalis: ꝛ pedalis longitudo minoret̄ ad eundeꝫ graduꝫ longitudis totū longū diceret̄ eſſe minꝰ longū:ꝛ tñ tantā longitudinē acq̄reret ſicut deꝑderet: imo longitudo acq̄ſita iᵒ mō acq̄reret̄ ꝙ intenſiue nihil faceret ad intenſionē totius longitudis vel maiorationē ſed ſoluꝫ extēſiue.ꝛ iᵃ deꝑdita nihil faceret ad deꝑditionē longitudis intēſiue vt eſt talis dimēſio:ſic in ꝓpoſito iᵃ qualitas acq̄ſita illo mō acq̄rit̄ ꝙ ad totā q̄litatem intēſiue nihil faciet ſed ſoluꝫ q̄titatiue: imo ad hoc ꝙ intenſiue faceret ad totā q̄litatē oporteret ꝙ coextenderet̄ cuꝫ iᵃ:ſicut longitudo acq̄ſita ſi maioraret aliaꝫ vel fieret aᵃ maior ꝓpter iſtā: opꝫ ꝙ ad extremū alteriꝰ longitudis acq̄rat̄:ſicut ēt ꝓfunditas corpis nō maioraret̄ intēſiue ꝑ aliā ꝓfunditatē aduenientē niſi fiat coextēſio illaruꝫ vel ſaltē additio ſm ꝓfundum:lꝫ ad aliud extremuꝫ acq̄rat̄: ſed ſoluꝫ q̄titatiue maiorē locū occuꝑᵒ. Sic etiam nec illa qualitas acq̄ſita aliqd faceret q̄litatiue ſed q̄titatiue quo ad totā qualitatē:ꝛ ideo ſi accipiat̄ medietas q̄litatis q̄litatiua vel q̄titatiua:arᵐ pᵐ de q̄litate nō ꝓcedit:ſilr etiaꝫ nᵉ de q̄lificato ꝓcedit niſi maneret vtraqꝫ medietas.ſ.nō rarefacta vel nō cōdenſata:qō tñ eſt impoſſe ꝛ ſuper falſa imaginatiōe fundat̄:ꝛ iō poſitio nō eſt vā:q2 eiꝰ fundamētuꝫ eſt imaginatio falſa:ꝛ eſt ſimplr ipoſſe ꝛ nō nāle.

Cōtra poſitionem.

Cōtra ni/ſionem.

Nota hic ꝙ due medietates q̄litatiue q̄litatis ſunt equales intenſiue.

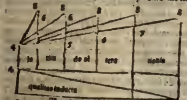
Alia poſi/tio quam ponit dul menſon ⁊ Jaco.foꝛ.

Alia eſt poſ. ponẽs ꝙ oẽ q̄lificatũ nõ admixtũ cũ ſuo ꝯ̄rio ē ita itẽſũ ſic aliq̄ ei⁹ pſ: q꞉ nõ ẽ rõ q̄re foret remiſſius. Et ſi arᷣ ꝙ ſic remiſſius iſto mõ: q꞉ pſ remiſſioꝛ illi⁹ põt icẽdi q̄uſq꞉ fuerit eque itẽſa cũ aᵗ: ⁊ tũc totũ erit itẽſi⁹ q̄ꝫ p⁹us: q꞉ acquireret certã latiᵗᵘᵈⁱⁿᵉ talis q̄litatis ꝯ̄ſilis cũ q̄litate in pn̄⁹ dicta. ſꝫ iſta ꝯ̄ña nõ valet in mã illa ſicꝫ pꝫ de longiᵗᵉ coꝛpis vł de pfũditate eiuſdẽ. Et cũ eſt q꞉ illo mõ addit ꝙ nõ fac̄ q̄litatiue mai⁹ q̄ ad totũ ſꝫ q̄ñtiᵗᵉ. Uel ſi ꝯ̄ ſic arᷣ. capiat̃ vnũ vnifoꝛᵉ ſummũ: ⁊ ſic B ifinitas hꝫ cãs. ſ. q̄litates ſũmas: quaꝝ q̄lꝫ ſuffic̄ ad tãtũ effectũ. ſ. facere hoc eẽ ſummũ: ⁊ per ꝯ̄ñs effect⁹ pduct⁹ ab oib⁹ iſtis foret infinit⁹: ⁊ ſic illud ſũmũ foret ifinite intẽſionis. negat̃ ꝯ̄ña: q꞉ oẽs iſᵗᵉ cãe ſic iuncte ſunt ꝙ nõ faciunt maioꝛẽ effectũ q̄ꝫ faceret vnũ illoꝝ per ſe. ſꝫ B ſufficit ꝙ p̄nt facere effectũ infinitũ. ⁊ B eſt verũ: poſito ꝙ ex iſtis oib⁹ vna cũ componeret q̄litatiue. Ex iſtis tñ nõ ſic cõponit̃ vna ſed ſolum q̄ñtitatiue: ſicut capto coꝛpe pedalis lõgitudis iſtud hꝫ ifinitas lõgitudies: quaꝝ quelꝫ ſufficit ad faciẽdũ id eẽ pedalis longitudis: ⁊ tñ ſic vniunt̃ adinuicẽ ꝙ oẽs iſᵗᵉ preciſe tantã faciũt longitudinẽ: ⁊ tñ ex iſtis ifinita poſſet fieri lõgitudo: ſic ẽt eſt de q̄litate vniformi ſm ſubm.

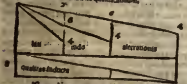
Tertia ꝯ̄⁹ ſequẽs ex hac põne.

Ex iſta põne ſeq̄t̃ ꝙ ſolũ mediãte latitudine eadeꝫ vel ꝯ̄ſilis intenſionis vniformiter extẽſa per ptes equales medioꝝ equaliũ vniformiũ vel nõ q̄lificatoꝝ: vnũ alio veloci⁹ intẽderet̃: vt capiãt̃ .a. ⁊ .b. media nõ q̄lificata eq̄lia. ⁊ põat̃ ꝙ in .a. inducat̃ certa latitudo intẽſionis ꝓabilr ſm ſubm extremo intẽſioꝛi ꝓcedẽte: que latitudo maneat continue vniformiter extẽſa per ptẽ alteratã: ⁊ iducat̃ in .b. equeue locater ꝯ̄ſilis latitudo manẽs vniformiter extẽſa per ptes alteratas extremo tñ remiſſioꝛi ꝓcedẽte. ⁊ ponet̃ ꝙ extremo .a. a quo icipit eẽ pgreſſio latitudis ꝯ̄tinue corrñdeat gradus intẽſiſſimus caliditatis qui erit in .a. ſicut patet eẽ poſſibile vbi tractat̃ de inductione gradus ſummi: ⁊ ſeq̄t̃ ꝙ .b. cõtinue erit intẽſius .a. q꞉ vtriuſq꞉ extremoꝝ illoꝝ a quo incipit alteratio pgredi cõtinue correſpõdebit caliditas eoꝝ intẽſiſſima: ſed illi extremo in .b. corrñdebit caliditas intenſioꝛ q̄ illi extremo in .a. eo ꝙ illi in .b. cõtinue corrñdebit alteratio velocioꝛ q̄ illi in .a. g̃ ſeq̄t̃ ꝯ̄clõ eo ꝙ vtriuſq꞉ manebit ꝯ̄tinue eq̄ intenſᵘᵐ cũ extremo ſuo itẽſioꝛi.

Regſe 3ᵒ vlume. ca.



A. mediũ nõ qualificatum.



B. medium non qualificatiuum.

Idem eſt argᵐ poſito ꝙ in pn̄⁹ .a. ⁊ .b. foꝛent vniformia.

2ᵃ ꝯ̄

Itẽ ſeq̄t̃ ꝙ aliq̄ eq̄ue⁹ intẽdent̃: dũ tñ vnũ itẽdet̃ mediãte latitudine terminata ad certos gradus: ⁊ aᵈ meᵗᵉ extremo remiſſioꝛi. ponat̃ enĩ ꝙ in .c. mediũ nõ qualificatũ vł vniformẽ inducat̃ gradus terminãs iſtᵃᵐ latitudinẽ ſm extremũ remiſſius eq̄ueue⁹ ſicut iſta latitudo iducit̃ in .a. ⁊ ſeq̄t̃ ꝙ iſtᵃ ꝯ̄tinue manebũt eque intẽſa: q꞉ illis extremis ad que incepit alteratio eẽ caliditas intẽſiſſima vtriuſq꞉ ꝯ̄tiᵉ corrñdebũt q̄litates que ꝯ̄tinue erũt eque intẽſe vt pꝫ. g̃ ſeq̄t̃ ꝯ̄.

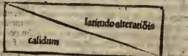
3 ꝯ̄nez.

Sed tñ arᷣ ꝯ̄ iſtas ꝯ̄nez pᵒˢ per eandẽ põnez: q꞉ oĩs alteratio eſt ita velox ſicut aᵍ ei⁹ pſ. g̃ oẽ intẽſuꝫ meᵗᵉ iſtᵃ latitudine eq̄ueue⁹ intẽdet̃ ſicut ſi gradu intẽſiſſimo eiuſdẽ intẽderet̃. Sꝫ ſi meᵗᵉ gradu intẽſiſſimo iſtᵃ duo. ſ. a. ⁊ .b. intẽderent̃ eq̄ueue⁹ itẽderent̃. igit̃ ⁊ nũc meᵗᵉ iſtᵃ latiᵗ eq̄ueue⁹ intẽderent: ⁊ ſic ſeq̄t̃ pmã ꝯ̄nez eẽ falſaꝫ. Et 2ᵃ eſt falſa: quia ſi eq̄ueue⁹ intẽdet̃ .a. ſic ſi gradu intẽſiſſimo itẽderet̃. g̃ .c. nõ ita velociter intẽdet̃ ſicut .a.

Rñſio.

Pro iſtis iſte ꝯ̄nes debent cõcedi: ⁊ dĩ ꝙ ad pũcta itrinſeca in .a. ⁊ in .b. alteratio nihil faciet niſi q̄ñtiᵗᵉ ſoluꝫ. ſ. quo ad ptes itrinſecas. ſed q̄litatiue ſolũ facit alteratio ad extremũ: eo ꝙ nullũ iſtᵒʳ veloci⁹ acq̄ret de diſtãtia q̄litatiua q̄ faceret ſi ſolum foret alteratio ad iſtᵃ extrema niſi q̄ñtiᵗᵉ. Et ſi queraẽ nũq̄d eq̄ueue⁹ itẽdent̃ vel nõ. Dõm eſt ꝙ aliq̄ eq̄ueue⁹ itẽdi eſt duplr. ſ. q̄litatiue vel q̄ñtiᵗᵉ. vñ q̄ñtiᵗᵉ eq̄ueue⁹ itẽdent̃: eo ꝙ ad aliquẽ punctũ .a. ꝯ̄tinue erit eq̄lis alteratio ſicut ad extremũ .b. q̄ tñ alteratio q̄ñtitatiue ſoluꝫ faciet reᵐ .a. eo ꝙ extẽdetur in pte .a. vnde ſi caperet̃ vnũ calidũ diffoꝛme terminatũ ad ſummũ qđ inciperet alterari meᵗᵉ latiᵗ terminata ad nõ gradũ: ſic ꝙ in fine totũ foret ſummũ p totũ: tũc illud eq̄ueue⁹ intẽderet̃ q̄ñtiᵗᵉ ſicut aliq̄ ei⁹ pars intẽderet̃ q̄litatiue: ⁊ tñ q̄litatiue totũ nõ intẽderet̃: eo ꝙ ſua q̄litas ꝯ̄tiᵉ maneret ſumma: poſito ꝙ in pn̄⁹ totũ ſit nõ admixtũ cũ ſuo ꝯ̄rio.

Dupłr ſz dici aliqđ eque veloci⁹ itẽdi.

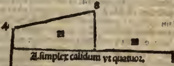


3ᵃ ꝯ̄

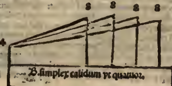
Ex iſtᵃ etiã põne ſeq̄t̃ iſtᵃ ꝯ̄clõ: ꝙ illud qđ alterat̃ eadem latitudine vel gradu ſiue per ptẽ minoꝛẽ ſiue per ptẽ maioꝛẽ, ipſuꝫ vniformᵉ alterat̃, ſubto nõ admixto cuꝫ ſuo ꝯ̄rio.

Correlᵐ

Et ex iſtᵒ ſeq̄t̃ ꝙ aliq̄ duo iaꝫ ſũt eque intẽſa q̄ ꝯ̄tiᵉ eq̄ue⁹ intẽdent̃ ⁊ in fine erũt in eque intẽſa. Sint eniꝫ .a. ⁊ .b. duo ſimplicia eque intẽſa: ⁊ per medietates vtriuſq꞉ extẽdat̃ certa latiᵗᵒ alterationis: ſitq꞉ extremũ intẽſi⁹ verſus meᵐ pũctũ: ⁊ pono ꝙ p certũ tp̃s ſic alterabũt̃: ⁊ ꝙ aſt alterationes fuerint vniformᵉ: ⁊ ponat̃ ꝙ ad pũctũ meᵐ .a. iducat̃ in hoꝛa gᵈ ſumm⁹ meᵗᵉ gᵈ intẽſiſſimo illi⁹ latiᵗ: ⁊ extendat̃ iſtᵃ latiᵗᵒ in .a. ꝯ̄tinue ſicut ⁊ nũc: ſꝫ in .b. ꝯ̄tinue p maioꝛẽ ptẽ ⁊ maioꝛeꝫ: ⁊ ſeq̄t̃ iſtᵃ eq̄ueue⁹ itẽdi: ⁊ .b. ꝯ̄tinue vniformᵉ: ⁊ etiã .a. per põnẽ ⁊ in fine .a. erit ſummũ: q꞉ pũcto ei⁹ medio tũc corrñdebit gradus ſumm⁹: ⁊ .b. tunc erit remiſſiuꝫ: q꞉ ad oẽm ei⁹ punctum tunc erit gradus remiſſus: quia ad medium punctuꝫ ⁊ a foꝛtioꝛi ad omnem alium vt patet. igitur ſequit̃ ꝯ̄clõ.



A. ſimplex calidum vt quatuoꝛ.

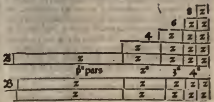


B. ſimplex calidum vt quatuoꝛ.

¶ Ideo dī vt prius φ aliqua vniformiter alterari eſt du-plicīter quātitatiue ⁊ qualitatiue. vñ q̄titatiue. b. vniforʳ alterabit nō q̄litatiue: q² tardius ⁊ tardiꝰ maiorabiť ꝯtrᵉ diſtātia q̄litatiua vt ſatis pȝ: q̄titatiue tñ eque veʳ ⁊ vniformiter: q² per aliquas ptes. b. erit eq̄lis alteratio ſicut nunc eſt. ideo iᵃ diſtinctio ſoluit totum.

Pria pō et pōt ſuſti neri. **Prima** tamen opinio de qualitate diſformi: cuius vtraqȝ medietas eſt vniformis pōt ſuſtineri. ſ. φ rñdeat gradui medio inter illas q̄litates: ⁊ fundať arᵐ ſup iᵒ. In duplo plus facit qualitas extenſa per totum ſubiectū ad totius denoīationē q̄ ſi tota per medietatem extenderetur: φ arguiť ſic. Signeť. a. φ hēat caliditatē vt. iiij. per totuȝ: tunc totū eſt calidū per totū caliditate vt. iiij. ſed vna medietas illiꝰ tātū facit ad denoīationē totiꝰ ſubti ſicut aᵃ medietas. igitur tota iᵃ qualitas in duplo plus denoiat totū q̄ vna eiꝰ pars: ſiue medietas totū denoiat: qd̄ fuit pbandū. Ex quo ſeq̄ φ denolatio totius ſubiecti per q̄litatem extēſaȝ per medietatē ſoluȝ eſt ſubdupla ad iᵃᵐ q̄litatem: q² in duplo minus denominat totum q̄ medietatem illaȝ per quam extenditur: ⁊ illam medietatem denoiat ſuo gradu ſummo. igiť totū per illaȝ q̄litatē denoiať gradu ſubduplo ad illaȝ qualitatē. Et ſi extēdať per quartam totius tñ: tunc denoiareť totum gradu ſubquadruplo ad illaȝ qualitatē. ⁊ ſic corrñdenter ſicut pporʳ extendiť per minorē partē q̄ eſt totū: ita totū denoiať gradu remiſſiori q̄ pars per quā extēdiť. ¶ Iſtis ꝯceſſis facilr̄ pbatur pō. Sit enim tale vniformiter diſforme ſeu diſforme: cuius vtraqȝ medietas eſt vniformis vna vt. iiij. ⁊ alia vt. iiij. gr̄a argumēti: tunc illa q̄litas vt. viij. extēdiť per medietatem totius per pdicta. ḡ ſoluȝ denoiat totū vt. iiij. per ideȝ iᵃ qualitas vt. iiij. per aliā medietatē extēſa ſoluȝ facit vt duo ad totiꝰ denoiationē. igiť iſte due q̄litates totuȝ pciſe denoiabūt vt. vi. qui eſt gradus medius īter illas medietates. ſeq̄ igitur pō ſic in ſpāli. ¶ Arguiť tñ ad hᶜ gñalr̄ ſic: ſigͦ tali diſformi: tunc vtraqȝ qualitas in iſtis medietatibꝰ eſt dupla ad gradū per quē totū denoiať ab iᵃ q̄litate: ⁊ ſi aliqd fieret ex iſtis q̄litatibꝰ ſimul extēſis: iᵃ q̄litas eſſet dupla ad iᵃᵐ duas denoiatiōes ſimul aggregatas: que denoiatiōes denoiationē totiꝰ cōſtituūt: ⁊ per ꝯñs cū iᵉ qualitates ſint in eque intēſe: pȝ φ denoiatio totius erit meᵃ equalr̄ inter iſtas duas qualitates: eo φ oē cōpoſituȝ ex duobꝰ inequalibꝰ eſt pciſe dupluȝ ad meᵐ inter iᵃ vt eſt argutū in zᵃ ſuppōne ꝯnis. xxxviij. ꝺ motu locali: ⁊ poſtea de inductiōe gradus ſummi arguiť. ſ. φ oē cōpoſitum ex duobꝰ inequalibꝰ erit plus q̄ duplū ad oē minꝰ meᵒ: ⁊ minus q̄ duplū ad oē maius meᵒ. pȝ ḡ ex pdictis φ denoiatio totiꝰ eſt in gradu meᵒ inter illas q̄litates: qd̄ fuit pbandum. ¶ Cōtra quā pōneȝ ⁊ eiꝰ fundamētuȝ aʳ ſic: q² ſeq̄

ꝯ pōneȝ pᵃ ꝯ φ ſi pma ps ꝓportionalis alicꝰ eſſet aliqualr̄ intenſa: ⁊ zᵃ in duplo intēſior: ⁊ 3ᵃ in triplo: ⁊ ſic in infiᵐ: totū eſſet eque intēſuȝ pciſe ſicut eſt ſcḋa ps ꝓportionalis: qd̄ tñ nō vi verum. Nam appet φ iᵃ qualitas eſt ifinita. ḡ ſi ſit ſine ꝯrio infinite denoiabit ſuū ſubm. Et φ cōcluſio ſequať arʳ ſic. ſint. a. ⁊. b. duo equalia ⁊ vniformia eodē gradu: ⁊ diuidať a. ⁊. b. in ptes ꝓportionales ꝓportiōe dupla: ⁊ ēt illa hora: ita φ ptes maiores terminent ſeu incipiāt ab hoc inſtāti: ⁊ ponať φ in pᵃ pte ꝓportionali illius hore intēdať pma pars. b. ad duplum: ⁊ ſilr̄ in zᵃ pte ꝓportionali hore intendať zᵃ pars ꝓportionalis illius ad dupluȝ: ⁊ ſic in ifinitū: ita φ in fine erit. b. vniforme ſub gradu duplo ad gradū nūc habitū: ⁊ ponať φ in pᵃ pte ꝓportionali illiꝰ hore intēdať totū reſiduū a pᵃ pte ꝓportionali. a. acqrende tantā latitudinē ſicut nūc acquirit pᵃ ps ꝓportiōalis. b. ⁊ in zᵃ pte ꝓportionali eiuſdeȝ hore intēdat totū reſiduū. a. a pᵃ pte ꝓportionali: ⁊ zᵃ illiꝰ. a. acqrendo tantam latitudinē ſicut tunc acqrit pars ꝓportionalis zᵃ. b. ⁊ in 3ᵃ pte ꝓportiōali intēdať reſiduū a pᵃ pte ꝓportionali: ⁊ zᵃ ⁊ 3ᵃ acqrēdo tātā latitudinē: ſicut tūc acqrit 3ᵃ pars ꝓportionalis. b. ⁊ ſic in infiᵐ: ſic φ q̄ñcūqȝ aliqua pars ꝓportionalis. b. itēdeť: pro tūc itēdať. a. ſm̄ ptes ꝓportionales ſubſequētes pteȝ corrñdētē in. a. acqrēdo tātā latitudinē ſicut acqret pars illa in. b. ⁊ ſint. a. ⁊. b. cōſilis q̄titatis ꝯtiᶜ: quo poſito ſeq̄ φ. a. ⁊. b. ꝯtinue equeuelociter itēdenť: q² a. ꝯtinue per ptē eq̄leȝ ꝓportionalē intendeť ſicut. b. q² reſiduū a pᵃ parte ꝓportionali. a. eſt equale pme parti ꝓportionali eiuſdem. b.



¶ Cuȝ igiť. b. in pᵃ pte ꝓportiōali illiꝰ hore ꝯtinue itēdeť per pᵃᵐ ptē ꝓportionalē. ⁊ ſilr̄. a. per totū reſiduū a pᵃ ſua pte ꝓportionali. pȝ φ. a. in pᵃ pte ꝓportionali equeuelociter itēdeť cū. b. ⁊ ſic de omni alia pte: eo φ q̄ñcūqȝ. b. intēdeť per aliquā ptē ꝓportionalē. a. itēdeť p totū interceptū inter ptes corrñdētes ſui ⁊ extremuȝ vbi ptes terminanť. ſ. minores. Cū ḡ q̄libet pars ꝓportionalis cuiuſlibet ꝯtinui ſit eq̄lis toti intercepto inter eādē ⁊ extremū vbi ptes minores terminanť. ſeq̄ ḡ φ. a. ꝯtinue per ptē eque ꝓportionalē ſic itēdeť ſicut. b. igiť pȝ φ. a. ꝯtiᶜ equeuelociter itēdeť cū b. ⁊ nūc eſt eque intēſum cū. b. vt poʳ in caſu. ⁊ h̄ vbi partes ſint ꝓportionales ꝓporᵗᵉ dupla. ḡ in fine. a. erit eque intēſum cuȝ. b. ⁊. a. tūc eſt tale cuius pᵃ pars ꝓportionalis erit aliqualr̄ intēſa. ⁊ zᵃ pars ꝓportionalis in duplo intēſior. ⁊ 3ᵃ in triplo intēſior: ⁊ ſic in īfinitū: ⁊. b. erit vniforme ſub gradu ſub quo erit zᵃ pars ꝓportionalis. ḡ ſequiť cōcluſio. Minor ſic arguiť que fuit h̄: ⁊. a. tūc erit tale cuius pma pars ꝓportionalis ⁊c̄. Sit. c. gradus queȝ nūc habēt a. ⁊. b. tūc in fine erit pma pars ꝓportionalis. a. ſub. c. gradu: quia nō intēdeť. ⁊ zᵃ pars ꝓportionalis. a. tūc erit ſub gradu duplo ad. c. q² in omni pte ꝓportionali hore acqretur tāta latitudo ſicut eſt. c. ⁊ zᵃ pars ꝓportionalis. a. ſoluȝ intēdeť per pmā partē ꝓportionalē illius hore. ḡ illi ſcḋe parti ꝓportionali. a. ſolū acqreť vnū. c. ⁊ per ꝯſequēs tūc erit ſub duplo gradu ad. c. ⁊ 3ᵃ pars ꝓportionalis. a. ſolum intēdeť per duas ptes ꝓportionales hore: q² ſolū per primaȝ partē ⁊ ſcḋaȝ. ⁊ quarta pars ꝓportionalis. a. ſoluȝ intendeť per tres ptes ꝓportionales illiꝰ hore: ⁊ ſic in infiᵐ: vt ſatis p caſuȝ pȝ. ḡ 3ᵃ pars ꝓportionalis. a. ſolum acqret duo. c. ⁊ erit in fine in triplo intēſior q̄ eſt. c. gradus. ⁊ 4ᵃ acqret tria. c. ⁊ ſic in infinitū. igiť pȝ φ tunc pma ps ꝓportionalis. a. erit aliqualr̄ intēſa: q² vniformis. c. gradui. ⁊ zᵃ pars in duplo intēſior: q² mediantibꝰ duobꝰ. c. gradibus. ⁊ 3ᵃ in triplo intēſior: q² mediātibꝰ tribus. c. ⁊ ſic in infinitū. ergo pȝ iſta minor: ⁊. b. tunc erit eque intenſuȝ cū zᵃ parte ꝓportionali. a. q² vniforme duobꝰ. c. gradibꝰ: q² quelibet eius pars ꝓportionalis ſoluȝ intendeť ad duplum. ḡ ſeq̄ cōcluſio que eſt cōcedenda. ¶ Ad arᵐ in oppoſitū negať ꝯñ. hec eſt qualitas infinite intēſa. ergo infinite totū ſubiectuȝ denoiat: q² iᵒ modo extendiť φ infinite modicū facit qualitas iᵃ infinita reſpectu illius ſubiecti. nam qualitas quarte ptis ꝓportionalis eſt in duplo itēſior q̄ qualitas ſcḋe partis ꝓportiōalis: ⁊ eſt ſubiectū ſubquadruplū: ⁊ ideo in duplo facit minus. ſ. q̄ ſcḋa. Si enim quarta ps ꝓportionalis eſſet in octuplo intēſior q̄ prima: ſicut eſt in Ad rōne in oppoᵐ.

octuplo

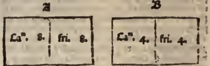
octuplo minor t^a: nūc tñ faceret ad toti^o denoiatioṇē ſi-
cut p^a: ſed 4.ª pars vt ↄſtat eſt nūc in duplo minus inteſa
q̄ nūc eēt: q2 nūc eſt in duplo remiſſior q̄ nūc eēt. cuꝫ g̃ 4.^a
pars ꝑportionalis in duplo minus facit in cōparatiōe ad
totū q̄ facit p^a pars ꝑportionalis. ⁊ p^a tñ facit in cōpa-
tione ad totū vt 2^a: vt pꝫ. igit̃ 4.ª pars ꝑportionalis in du-
plo minus facit q̄ 2^a ad totius inteſionē: ⁊ tñ ſua qualitas
eſt in duplo inteſior: ⁊ ſic diſcurrēdo q̄libet qualitas extēſa
per ptē poſteriorē minus facit q̄ qualitas extēſa per ptē
priorē: vocādo ptes priores que ſunt ꝓpinquiores extremo:
vbi ptes maiores terminant̃. ⁊ h̄ eſt verū de oīb^o ptibus
ꝑportionalib^o. a. niſi de p^a ⁊ 2ª que equalr̃ faciūt ad totius

2^a 2clo denoiatione. ¶ Cōtra 1^{am} ↄnēꝫ arguit̃. ex iſta ſequit̃ q̄ a.
nūc eſt ſolū finite inteſum: ⁊ per rarefactionē finitā ſolū ſu-
bito fiet infinite inteſuꝫ. Et q̄ 1ª ſit falſa, arguit̃ ſic. a. nō inte-
det̃ niſi p rarefactionē. igit̃ ſi rarefactio ſeu acq̄ſitio quā-
titatis ſit tñ finita: ſeq̄t̃ q̄ a. ſolū finite velociter intēdet̃:
⁊ per ↄñs nō fiet ſubito infinite inteſuꝫ. Et q̄ 2clūſio ſequa-
tur arguit̃ ſic. ſit a. tale cui^o p^a pars ꝑportionalis ſit aliq̄-
liter inteſa. ⁊ 2^a in duplo inteſior. ⁊ 3^a in triplo inteſior: ⁊ ſic
in infinitū: nūc a. eſt ſoluꝫ finite inteſum: vt ꝑdicit̃. Ponat̃
igit̃ q̄ 2ª pars ꝑportionalis. a. aliqualr̃ velociter rareſiet
acq̄rēdo q̄ntitatē: ⁊ 4.^a pars ꝑportionalis in duplo inteſior
2^a pte ꝑportionali in duplo tardius acq̄rat de quātitate: ⁊
pars in quadruplo inteſior 1^a 2^a: in q̄druplo tardius acq̄ret
quātitatē q̄ illa 2^a: ⁊ ſic in infinitū. ⁊ nūc incipiat h̄ rarefa-
ctio in illis ptib^o ſtātib^o oībus aliis ptib^o nō rarefactis nec
cōdēſatis. ⁊ ſeq̄t̃ q̄ a. ſolū finite velociter rareſiet ſeu ma-
iorabit̃: q2 p^a pars rarefacta aliqualr̃ rareſiet ſeu maiora-
bit̃: ⁊ 2^a in duplo tardius: ⁊ ſic in infinitū. Et q̄ a. ſubito in
infinitū inteda, ꝓbat̃ q2 ante q̄dcūq̄ inſtans habebit a. infinitas
ptes: quaꝝ q̄libet tñ faciet ad inteſionē toti^o: ſicut eſt hoc
terminū datū: demōſtrādo 1^a q̄d faciet q̄ntitas acq̄ſita ſcḋe pti
ꝑportionali. nā ſic aliq̄ pars acq̄ſita alicui pti ꝑportiona-
li: erit minor q̄ q̄ntitas acq̄ſita 2^e pti ꝑportionali: ita ea-
dē pars erit inteſior q̄ 2ª pars ꝑportionalis: ⁊ q̄ q̄ntitas ſi-
bi acq̄ſita: vt ponit caſus, addēdo q̄ q̄libet pars ꝑpor^{lis} in
p^a ⁊ 2tinue ſit vniformis. ſꝫ h̄ eſt gñalr̃ veruꝫ: q̄ ſi ꝑpor^r
ſic vna q̄ntitas ſeu pars alicui^o eſt alia pte minor: ita eadeꝫ
ſit alia pte maiori inteſior: equalr̃ faciēt oēs h̄ ptes ad to-
tius inteſionē. g̃ oēs iſte q̄ntitates acq̄ſite infinite faciēt eq̄li-
ter ad toti^o denoiatione. i. ante q̄dcūq̄ inſtās: ⁊ per ↄñs cū
erūt h̄ ptes infinite: ſeq̄t̃ q̄ in infi^{m} faciēt ante q̄dcūq̄ inſtās
datū. Et q̄ 1ª aſſumptū ſit veruꝫ. f. q̄ ſi ꝑpor^r ſic vna q̄nti-
tas ſeu pars ⁊c. pꝫ. ſit n. vna pars pte ar^{li} dupla ad aliaꝫ: ⁊
in duplo remiſſior. ⁊ ar^r ſic. Si iſta pars ſubdupla que ſit
c. foret ſub eodeꝫ gradu ſic pars dupla que ſit. d. in duplo
min^o faceret. c. ad toti^o inteſionē q̄ d. q2 a. c. nūc tñ faceret
ſicut vna medietas. d. eo q̄ tūc. c. pars ⁊ medietas. d. eēnt
eq̄les ⁊ ſub eodeꝫ gradu: ⁊ tūc faceret. d. in duplo plus q̄
vna eius medietas: poſito. d. vnifor^r. g̃ tūc faceret. c. in du-
plo min^o q̄ d. ſꝫ nūc. c. in duplo plus facit q̄ tūc: eo q̄ nūc
eſt in duplo inteſius q̄ tūc eēt. igit̃ nūc. c. faciet tñ ad to-
tius denoiatioēꝫ ſic. d. ⁊ ſic de oī alia ꝑportione eſt arguē-
dū. igit̃ pꝫ 1^a nō obile: ex quo ſeq̄t̃ 2clo cū caſu poſito. Ideo

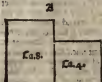
Ad arg^m 2clonē. 2cedēda eſt 2clo. ¶ Et ad arg^m in oppo^m negat̃ ↄñia: q2 lꝫ
ſolū finite velo^r incipiet totū maiorari infinite: tñ ꝑpor^r in-
cipiet aliq̄ pars maiorari. ⁊ ideo infi^{te} ꝑpor^r incipit denoia-
tio alicui^o ptis in cōparatōe ad totū maiorari. ⁊ ſic vt ꝓba-
tū eſt infinite incipit denoiatio toti^o maiorari p maioratio-
nē oīuꝫ illaꝝ ptiū. Aſſumptū pꝫ. nā 4.ª pars ꝑportionalis
eſt ꝑciſe in duplo inteſior q̄ 2^a: ⁊ in q̄druplo minor vt cō-
ſtat: ⁊ in duplo tardius acq̄ret q̄ntitatē: ideo in duplo velo-
cius ꝑpor^r incipit 4.^a pars ꝑpor^r maiorari q̄ 2^a: ⁊ 8^a pars
ꝑportionalis eſt in. 16. minor q̄ 4^a: vt pꝫ. ⁊ in duplo tar-
dius ꝑciſe acq̄ret q̄ntitatē q̄ 4^a: q2 eſt in duplo inteſior. g̃ in
octuplo veloci^o ꝑpor^r incipit 8^a pars ꝑportionalis maiora-
ri q̄ 4^a. Si n. eq̄velo^r acq̄reret 8^a pars ꝑportionalis q̄nti-
tatē ſic 4^a: tūc in decimoſexcuplo veloci^o ꝑpor^r maiorat̃:
vt pꝫ in regulis poſitis de motu locali: ⁊ nūc in duplo tar-
dius maiorat̃ 8ª pars q̄ tunc maiorarei: vt pꝫ. igit̃ nūc in
octuplo veloci^o ꝑpor^r maiorat̃: ſeu incipit maiorari 8^a pa
ꝑportionalis q̄ 4^a: ⁊ ſic in infi^m, ⁊ ſic pꝫ ꝓbāduꝫ. ¶ Itē ex 3^a 2clo
illa pōne ſeq̄t̃ q̄ aliq̄d 2ti^r certe velociter intēdet̃: ⁊ tñ q̄li-
bet ei^o pars 2ti^r certe velociter. intēdet̃: ⁊ tñ cuiuſlibet ptis
illi^o infi^{te} tarde 2ti^r intēdet̃ aliq̄ pars. Cui^o tñ opp^m appet: q2
ſi q̄libet pars certe velo^r intēdet̃. g̃ cuiuſlibet ptis vel ali-
cui^o ptis certe velociter intēdet̃ q̄libet pars: ⁊ p ↄñs 2clo fal-
ſa. Et q̄ 1ª ſequat̃ ex pōne arg^r ſic. capiat̃. a. vnifor^r diſfor-
me calidū: ⁊ 2dēſet̃ totū v̄ſus extremū inteſius: ita q̄ quāto
ptes ſunt remiſſiores: tāto veloci^o 2dēſent̃ ſeu minorent̃:
q̄d accipit̃ hic pro eodē: tūc q̄ a. 2ti^r certe velo^r intēdet̃, pꝫ:
q2 ſi 2ti^r equalis eēt 2dēſatio vndiq̄: tūc totū nō intēderet̃
nec remitteret̃: q2 ſemp maneret ↄſi^r diſpoſitū ſic nūc eſt:
ſꝫ nūc velocior erit 2dēſatio in ptib^o remiſſiorib^o q̄ in pti-
bus inteſiorib^o: ⁊ 2dēſatio ptis remiſſioris vl̃r facit ad to-
ti^o inteſionē iuxta hāc pōnē. igit̃ pꝫ q̄ totū. a. 2ti^r certe velo-
citer intēdet̃. Et q̄ q̄libet ei^o pars 2ti^r certe velociter intēdet̃
oīno ↄſilr̃ ar^r: eo q̄ cuiuſlibꝫ talis ptis veloci^o 2dēſabunt̃
ptes remiſſiores q̄ ptes inteſiores. Et q̄ cuiuſlibet ptis infi-
nite tarde 2ti^r intēdet̃ aliq̄ pars pꝫ: q2 cuiuſlibet ptis p infi^m
modicū diſtat aliq̄ pars ab extremo inteſiori eiuſdē ptis: ⁊
nunq̄ deueniet aliq̄ pars ad inteſionē extremi ſui inteſioris
p h̄ 2dēſationē: q2 cuiuſlibet ptis 2ti^r diſtabit q̄libet pū-
ctus intrinſecus ab extremo inteſiori. g̃ infinite tarde 2ti^r intē-
det̃ cuiuſlibet ptis aliq̄ pars. ↄñia tenet ⁊ maior ar^r ſic. det̃
aliq̄ pars tūc exq̄ 1ª eſt vnifor^r diſformis. pꝫ q̄ tota 1ª lati-
tudo itē^m p certā latitudinē diſtat ab extremo illo inteſio-
ri illi^o: q2 talis pars corrīdet ſuo medio iuxta pōneꝫ. Etiā
me^{tas} iſti^o p indu^o minus diſtat ab extremo ſuo inteſiori q̄
tota 1ª pars: q2 gradus medi^o illi^o medietatꝫ eſt in duplo ꝓ-
pinquior extremo inteſiori toti^o: ⁊ ſic 4.^a inteſiſſima p in q̄dru-
plo minus diſtat ab extremo inteſiori q̄ tota: cuius eſt 4^a:
⁊ ſic in infinitū. ergo per infinite modicum diſtat aliq̄ pars
iſtius partis date ab extremo ſuo inteſiori: q̄d fuit probā-
dum. ſequit̃ igit̃ 2clūſio cōcedenda. ¶ Et ad arg^m in op-
poſitū negat̃ ↄſequētia: ſicut nūc ꝓbatū eſt illā nō valere.

Corre^m. ¶ Ex hoc ſequit̃ q̄ vbicūq̄ aliq̄d intēdit aliud per cōdē-
ſationeꝫ: infinite tarde intēdet̃ aliqua eius pars: q2 det̃ tale:
tūc ſi ſit vnifor^r diſfor^e 1^a iaꝫ ꝓbatū eſt: ſi ſit diſforme cui^o
aliq̄ pars ſit vniformis ſic pars inteſior: tūc ab inteſione illi^o
ptis p infinite modicū diſtat aliq̄ pars cōpoſita ex 1^a pte: ⁊
alia pte ptis remiſſioris: vt pꝫ. ⁊ nunq̄ per h̄ 2dēſationē
deueniet aliq̄ pars ad inteſionē illi^o ptis vniformis ſicut cō-
ſtat. igit̃ infinite tarde intēdet̃ aliq̄ pars iſti^o. Si aūt p totuꝫ
ſit diſfor^e. vel igit̃ erit 2dēſatio p totū vel per ptē. ſi p totū
arg^r ſic in ↄne prima. Si p ptē erit 2dēſatio ⁊ nō p totuꝫ:
tūc opꝫ q̄ 1^a 2dēſatio ſit in pte remiſſiori: q2 aliter nō intē-
deret̃ totū rōne iſti^o 2dēſationis. Sit igit̃. c. pars que 2dē-
ſabit̃: ⁊. d. pars inteſior reſidua: ⁊ ſit. a. totū. Arguit̃ tūc ſic. p
aliquātū diſtat cōpo^m ex. d. ⁊ toto. c. ab inteſione. d. ptis: ⁊ p
indu^o minus diſtat cōpo^m ex. d. ⁊ aliq̄ pte. c. ab inteſione. d.
⁊ ſic deinceps vt argutū eſt: eo q̄ in infinita modica ꝑpor^{ne}
ſe hꝫ aliq̄d tale cōpo^m ad. d. ⁊ nunq̄ p h̄ 2dēſatioēꝫ deue-
niet aliqua talis pars cōpoſita ad inteſionē. d. vt ꝑteꝛeo q̄
cuiuſlibet talis cōpoſiti ſp diſtabit aliq̄ pars a. d. igit̃ infini-
te tarde intēdet̃ aliq̄d tale cōpo^m: q̄d eſt 2cedēdū. ¶ Cōtra 3 corr^m.
q̄ñ ſic arg^r. Illud intēdēs ex certa ꝑpor^{ne} nec̄io agit. g̃ nō
infinite tarde intēdet̃ aliq̄d tale cōpo^m. negat̃ ↄñtia: q2 lꝫ cer- Rñſio
te velociter agat. f. 2dēſando p acc̄ns tñ eſt q̄ illud intēdit.

nō itē dit.n.niſi q: facit ptē itēſiorem plus ꝓpor^r facere in cōparatiōe ad totū ſubm ⁊ ptē remiſſiorē minus:vt dcm̄ eſt.⁊ ideo vl'r vbi agēs agit ex ꝓpor^{ne} certa:mot^9 pn^r ab co itētus erit tāte velocitatis ſic̄ eſt velocitas illi ꝓpo^{ni} corriſ dēs.De alijs tn̄ motib^9 qui p accn̄s p hōc actionē ꝓducunť nō reqrit̄ h̄ eē verū. ⁋ Itē ſeqt̄ ꝙ oīa iſta ſunt nūc ꝯſilia: ⁊ p ꝯſilez rarefactionez ſeu eq̄lē acqſitionē q̄ntitatis:⁊ per ptes eque ꝓpor^{les} re^a toti^9 ifinite velociter incipit aliqđ illoꝝ itēdi:⁊ ifinite tarde.Sint.n.ifinita:q̄rū p^m ſit aliq̄ntulū paruū.⁊ 2^m in duplo min^9.⁊ 3^m in triplo minus:⁊ ſic in ifiniti:⁊ ſit cuiuſlibꝫ illoꝝ vna medietas ſūme calida:⁊ alia remiſſe calida eodē gradu in q̄libet:⁊ incipiat illoꝝ pars ſūme calida rareſieri vel acqrē certā q̄ntitatē.c.gradu:ſtā tib^9 alijs medietatib^9:tūc ꝙ oīa ſint ꝯſil'r itēſa ⁊ diſpoſita. pꝫ per caſuꝫ.⁊ ſil'r oīa incipiūt rareſieri p ptes eque ꝓportionales eis:q: p medietates ⁊c̄. Et ꝙ ifinite velociter incipit aliqđ illoꝝ itēdi pꝫ:q: nūc diſtāt oīa per certā latitudinē a ſūmo.vꝫ.per eq̄lē latitudinē:⁊ per ifinite modicuꝫ ime^{te} poſt h̄ diſtab^t aliqđ iſtoꝝ a ſūmo.g̊ ifinite velo^r incipit aliqđ illoꝝ itēdi.añs pꝫ:q: q̄cūq3 iſtāti dato poſt hoc ante i^o erit certa q̄ntitas cuilibet illoꝝ acqſita.g̊ imediate poſt h̄ ifinite magna erit ꝓpor^o ptis ſūme calide alicui^9 illoꝝ ad ptē remiſſā:⁊ p ꝯn̄s ifinite modicū diſtabit aliqđ illoꝝ ime^{te} poſt h̄ a ſūmo:⁊ per ꝯn̄s infinite velociter ⁊c̄. Sil'r arguit̄ ꝙ ifinite tarde ⁊c̄.q: ime^{te} poſt h̄ per ifi^m modicū diſtabit aliqđ illoꝝ a ſūmo:⁊ q̄libet illoꝝ per certū tp̄s intēdet̄:⁊ nunq̄3 fiet aliqđ illoꝝ ſūme calidū.g̊ infinite tarde itēdet̄ aliqđ illoꝝ.ideo ꝯcedit̄ ꝯclō:q: ꝫ ſic certe velociter incipiat eē rarefactio:per ptē alicui^9 illoꝝ:tn̄ ifinite velociter ime^{te} poſt h̄ ꝓpor^r rareſiet aliqđ.⁊ ideo ifinite velociter incipit i^o rarefactio aliqđ illoꝝ itēdē:q: ifinite ꝓpor^r incipit maiorare ptē ſūmā ſupra ptē remiſſam alicui^9 illoꝝ: ⁋ Cōtra ꝯnē arguit̄ in iſto eodē caſu:ſit.a.p^m illoꝝ gr̄a ar^{ti}.⁊ arguit̄ ſic.nullū illoꝝ itēdet̄ niſi p maiorationē ꝓpor^{nis} ptis ſūme calide ſupra ptē remiſſam:ſꝫ in.a.ꝯtinue tardius maiorabit̄ ꝓpor^o ptis ſūme ſupra ptē remiſſam q̄3 in aliq̄ alio illoꝝ:vt pꝫ:eo ꝙ q̄libet eoꝝ ꝯti^e erit minus.a.⁊ eq̄uelo^r creſcēs cū.a.igit̄ q̄libet illoꝝ ꝯti^e velocius itēdet̄ q̄3.a.ſꝫ.a.nō ifinite tarde incipit itēdi.igit̄ a fortiori nūc nō incipit aliqđ illoꝝ ifinite tarde itēdi.igit̄ ꝯclō eſt falſa in i^o caſu. ⁋ Pro iſto negat̄ ꝯn̄a:q̄libet illoꝝ p maiorationēꝫ ꝓpor^{nis} ⁊c̄.igit̄.a.ꝯti^e tardius itēdet̄ ⁊c̄.Et ꝙ ꝯn̄a nō valeat arguit̄ ſic. Nā det̄ i^o qđ ꝯti^e veloci^9 itēdet̄ q̄3.a.ſi ꝯn̄a valet:⁊ ſit.c.tūc ſic det̄ aliqđ inſtās.⁊ ſeqt̄ ꝙ.c. tūc p minorē latitudinē diſtabit a gradu ſūmo q̄3.a.diſtet. ſit igit̄ ꝙ.a.p.f.latitudinē in tali iſtāti diſtet a.c.tūc.a. pōt itēdi q̄uſq3 diſtet a ſūmo per.f.latitudinē ſolū.igit̄ ſi.c.ꝯtinue velocius itēdet̄ q̄3.a.ſeqt̄ ꝙ ante illud iſtās in quo.a. diſtabit a ſūmo per.f.latitudinē ſolū erit.c.ſūmū.ꝯn̄s falſum:q: tūc erit pars ſūma.c.ſoluꝫ finita ⁊ reſidua pars remiſſa:ideo nō valet ar^m. Sil'r ponat̄ ꝙ pars ſūma.a.rareſiat q̄uſq3 totū.a.p in duplo minus diſtat a ſūmo q̄3 nūc.⁊ ſeqt̄ ꝙ q̄ntūcūq3 velocius ꝓpor^r itēdet̄ pars ſūma poſt illud iſtās in quo erit in duplo minus diſtās a ſūmo q̄3 nūc ꝙ nō poterit reliquā ptē illi^9 latitudīs acqrē per hō rarefactionē:q: tūc nunq̄3 fieret ſūmū niſi ſubm in ifi^m rareſieret:ideo nō valet ar^m.ſꝫ bn̄ ſeqt̄:iſta ſunt oīno ꝯſil'r diſpoſita ⁊ veloci^9 ꝓpor^r maiorat̄ ꝓpor^o medietatis itēſioris ſupra remiſſiorē p rarefactiōēꝫ vni^9 q̄3 alteri^9.igit̄ illud velocius itēdet̄:vbi tn̄ illa nō ſunt ꝯſil'r diſpoſita nō valet ar^m:vt p^9 argutū eſt. ⁋ Vn̄ hec ꝯ eſt ꝯcedēda:ꝙ.a.⁊.b. ſunt eq̄lis q̄ntitatis:⁊ ſub eodēꝫ gradu vel ꝯſili q̄rū p ptes eq̄les eq̄li velocitate alterabunt̄ p rarefactiōēꝫ:que rarefactio facit total'r ad toti^9 itēſionē:⁊ tn̄ vnū alio ꝯti^e in duplo velocius itēdet̄. ⁋ Sit eniꝫ.a.tale:cui^9 vna medietas ſit ſūme calida:⁊ alia ſūme frida:⁊.b.tale:cui^9 vna medietas ſit calida in gradu medio totius latitudīs caliditatis nō admixta cuꝫ ſuo ꝯtrario:⁊ alia medietas ſit frigida in gradu medio nō admixta ſuo ꝯtrario.ſ.caliditate:⁊ rareſiāt ambe medietates calide.a.b.c.gradu velocitatis ꝯtinue:⁊ ſint cetera paria.



Tūc ex iſto caſu ſequunt̄ oēs ptes ꝯclōnis imediate preter vlt^{am}:que ſic ꝓbat̄.a.b.incipiūt calefieri a nō gradu eē calidi:q: neutrū nūc eſt calidū:⁊.a.ꝯti^e erit in duplo calidi^9.g̊ in duplo velocius ꝯti^e calefiet.a.q̄3.b.maior pꝫ ex caſu.⁊ minor ꝓbat̄ ſic.capiat̄ illud inſtās gratia exēpli in quo vtrūq3 erit in duplo maius q̄3 nūc eſt:tūc in illo iſtāti erit vna medietas.a.ſūme calida:⁊ alia neq3 calida neq3 frigida:vt ꝯſtat.⁊ tūc erit vna medietas.b.calida in g̊du medio:⁊ alia neq3 calida neq3 frigida:vt pꝫ.igit̄ tūc erit.a.in duplo calidi^9.b.ꝯn̄ria ꝓbat̄ ſic.ponat̄ ꝙ in illo iſtāti incipiāt medietates calide.a.b.remitti:⁊ ſic vnifor^r ⁊ eq̄uelo^r remittant̄ ad nō gradū:ſtātib^9 alijs medietatib^9 nec calidis nec fridis.⁊ ſeqt̄ ꝙ i^a medietas.b.in duplo citius deueniet ad nō gradum q̄3 illa medietas.a.q: erit tūc in duplo ꝓpinquior nō gradui q̄3 medietas.a.vt pꝫ:⁊ remiſſis illis medietatib^9 ad nō gradū erit vtrūq3 nō calidū vt ꝯſtat: igit̄ in duplo citius deueniet.b.ad nō gradū eē calidi q̄3 a.⁊ equal'r remittet̄:q: per ptes eque ꝓportionales eodē gradu.igit̄ in illo inſtāti dato erit.a.in duplo intēſius.b.⁊ ꝯſil'r pōt argui de q̄libet alio inſtāti.igitur ꝯcedit̄ ꝯcluſio.
⁋ Cōtra.equalis erit ꝯtinue ꝓportio ptis calide.a.ad partes ſu^e frigidā:ſicut.b.⁊c̄.igit̄.a.⁊.b.ꝯtinue erūt equal'r calida. Sil'r.a.⁊.b.nō alterabunt̄ niſi per rarefactiōēꝫ. Cuꝫ g̊ per equalē ptē equal'r rareſient.apparet g̊ ꝙ equal'r alterabunt̄. ⁋ Ad p^m arg^m negat̄ ꝯn̄ia:ꝙ ꝫ ſit eq̄lis ꝓportio ⁊c̄.tn̄ quelibet pars calida.a.per totū in duplo plus faciet ad denoiationē.a.q̄3 equalis pars.b.ad denoiatiōēꝫ.b. ⁋ Ad 2^m arg^m negat̄ ꝯn̄ia ꝓpter ꝯſilēꝫ cām. Aliqua rarefactio ſimul ipediet ⁊ iuuabit ad intēſionē alicuius calidi.Or hec ꝯcluſio ſit ipoſſibilis pꝫ manifeſte.Ad quaꝫ ꝓbādā ponat̄ ꝙ.a.ſit tale:cui^9 vna medietas ſit ſūme calida:⁊ alia remiſſe calida:⁊ rareſiat medietas ſūma:⁊ cōdēſetur medietas remiſſa vniformiter ad non quātum.



Tūc ſic i^a rarefactio cōti^e iuuabit ad intēſionē.a.q: vl'r rarefactio medietatis intēſioris diffor^m iuuat ad ei^9 intēſionē:vt pꝫ per poſitionē:⁊ aliq̄n impediet:eo ꝙ tāꝫ iten^{nem} acqreret.a.in i^a hora ſi nō rareſieret ſicut iaꝫ acqret.Sꝫ aliq̄n in i^a hora minorem iten^{nem} acqreret q̄3 ſi nō rareſieret.igit̄ aliquā minorē latitudinē acqret q̄3 ſi nō rareſieret:⁊ per ꝯſequens rarefactio aliq̄n ipediet.Et ꝙ ꝯtinue iuuabit arguit̄ ſic:q: ſi nō det̄ tēpus per qđ nō:⁊ ſit nūc gr̄a argumēti p^m illi^9 tpis ⁊ꝯtra.in fine illi^9 tpis erit.a.intēſius q̄3 ſi nō rareſieret per illud tēpus:q: erit maior ꝓportio ptis ſūme ſupra ptē remiſſam q̄3 eēt ſi nō rareſieret.igit̄ per illud tēpus vel per aliquā eius ptēꝫ illa rarefactio iuuabit:⁊ ſic pro omni tēpore eſt

Nō eſt inconueniēs aliquid ex certa proportiōe itēdi infinite tarde quādo p accidens hoc fit. Nota.

4ª ꝯclō

5 ꝯclone.

ſolū q̄ntitatiue ⁊ qualitatiue.

5ª ꝯclō

3 ꝯtinem

2.

Ad p^m.

Ad 2^m

6ª ꝯclō

poꝛe eſt arguēdū. ¶ Pꝛo iſto negaꝛ ꝯcluſio: ꝛ pars 2ª ꝯce
ditur ꝛ negaꝛ pͥma. ꝛ ad argᵐ negaꝛ ꝯña: qꝛ ſi medietas
ſūme calida nō rarefieret: tūc ꝯdēſatio ptis remiſſe plus
faceret ad totius intēſionē ꝙ̄ nūc faciet. Et ideo pro caſu
diciꝛ ꝙ ꝯtinue velocius intēdetꝛ .a. ꝙ̄ ſi pro tūc nō rarefie
ret: ꝛ pro omni inſtāti erit hec ꝓpoſitio vera: velocius in
tēdiꝛ .a. ꝙ̄ ſi nō rarefieret: nō tñ ꝯtinue velocius intēdetꝛ:
ꝙ̄ ſi ab initio nulla fuiſſet rarefactio: ex quo tñ nō ſequiꝛ
ꝙ rarefactio impediat: qꝛ hoc ſolū eſt: qꝛ pars remiſſa mi
7ª ꝯclo mus faciet per cōdēſationē ꝛc. ¶ Aliqḋ eſt calidū infinite
intēſum: ꝛ vna medietas eſt vniformis ſub aliq̄ certo gra
du: ꝛ alia nec calida nec frigida. Sit .a. vnū tale: cuius vna
medietas ſit vniformis .c. gradu: ꝛ extēdanꝛ per aliā me
dietatē īfinite caliditates īfinite īteſionis: ꝛ īfinite frigidita
tes infiᵗᵉ intēſionis. Tūc ꝙ .a. ſit calidū ꝓbo ſic. ſi vna me
dietas eēt ſub .c. gradu: ꝛ alia medietas hēret finite ꝛ equa
liter de caliditate ꝛ frigiditate totū eēt calidū: vt notū eſt
iuxta hāc poſitionē. ꝛ ſi intēderenꝛ iſta caliditas ꝛ illa fri
giditas in īfinitū equevelociter ꝯtinue maneret eque cali
dū ſicut nūc eſt. igiꝛ ſi infinite tales caliditates ꝛ frigidi
tates ſibi addanꝛ totū ꝯtinue maneret calidū: ꝛ per ꝯſe
quens ipſum nūc eſt calidū. Uel ſic. ex quo iſta medietas
nec eſt calida nec frigida nō plus impediet totius denoia
tionē ꝙ̄ ſi eſſet mā nō qualificata: ꝛ tūc eſſet calidū. ergo
ꝛ nūc eſt calidū. Dato igiꝛ ꝙ vna illaꝝ caliditatū infinite
intēſarū extēdereꝛ per medietatē calidā: ſicut nūc eſt per
aliam: totū eēt īfinite calidū: qꝛ tūc vna medietas eēt infi
nite calida: ꝛ alia nec calida nec frigida: ſꝫ nūc eſt .a. eque
intēſuꝫ ſicut eēt tūc: qꝛ nūc facit illa caliditas infinita tm̄
ad totius denoiationē ſicut tūc faceret: eo ꝙ per tm̄ nūc
extēdiꝛ ſicut tūc extenderetꝛ. ergo ꝛc. Ideo dicū negādo
ꝯcluſionē: ꝙ ſi medietas vna ſit finite calida: ꝛ alia nec ca
lida nec frigida, denoiatio nō erit infinita: qꝛ caliditas il
la in medietate calida nō tm̄ denoiabit totū ſicut illā
medietatē: nec alia medietas aliqḋ denoiabit. igiꝛ ꝛc. Et
ad caſum admittiꝛ de imaginatione: ꝛ dī ꝙ .a. nō erit cali
dū: qꝛ per idem pōt ꝓbari ꝙ .a. eſt frigidū: ſicut ſi vna il
larū infinitaꝝ frigiditatū vniformiter extēderetꝛ per me
dietatē calidā. vna enim medietas tūc eſſet frigida: ꝛ alia
nec calida nec frigida. Uñ tanq̄ꝫ regula obſeruetꝛ: ꝙ vbi
cūqꝫ eſt aliqua qualitas que infinite denoiaret ſuū ſubie
ctū deducto ſuo ꝯtrario manēte illa quātumcūqꝫ addaꝛ
de qualitate ꝯtraria nunq̄ꝫ totū ſubiectū modo ꝯtrario deno
minabit: qꝛ impedimētū ibi eſt infinitū: ꝛ nullū infinitū
eſt alio maius: ideo nō ſequitur vna medietas eſt calida:
alia nec calida nec frigida. igiꝛ totū eſt calidū niſi adda
tur in antecedēte ꝙ ibi nō ſit frigiditas īfinita. ¶ Et ideo
quādo diciꝛ in argumēto: ſi tam caliditas ꝙ̄ frigiditas in
īfinitū intēderetꝛ totū maneret ſemꝑ eque intēſum ſicut
nūc eſt. ¶ Negaꝛ illud: quia in infinitū augebiꝛ impedi
mētū quo nullū iuuamētū pōt eſſe maius. ¶ Et ad aliud
quādo aſſumiꝛ ꝙ nunc eſt eque intēſum .a. ſicut ſi medie
tas nō calida neqꝫ frigida eſſet nō qualificata. hoc eſt ne
gādum: qꝛ nūc eſt impedimētū poſitiuū infinitū ſicut nō
tūc eſſet. ¶ A .b. ſunt inequaliter intēſa: ita ꝙ .a. eſt infinite in
8ª ꝯclo tenſum: ꝛ .b. infinite remiſſum: ꝛ quelibet pars .a. eſt eque
intēſa cuꝫ parte correſpōdēte .b. Sint .a. ꝛ .b. infinita extē
ſiue: ꝛ ſit quelibet pars pedalis in .a. diſpoſita latitudine
infinita: ꝛ ſic extendaꝛ ꝙ quelibet pars pedalis correſpō
deat gradui finito qui ſit .c. ſic enim poteſt extēdi: vt ꝓba
tuꝫ eſt in pͥma ꝯcluſione eſſe poſſibile. ꝛ ſit quelibet pars
pedalis .b. diſpoſita latitudine terminata ad nō gradum:
ita ꝙ correſpōdeat etiā .c. gradui: ꝛ extēdaꝛ extremū infi
nitum latitudinis illius in q̄libet pedale .a. verſus īfinitū:
ꝛ nō gradus latitudinis cuiuſlibet pedalis .b. verſus infi
nitū extremū .b. Et ſupponiꝛ ꝙ ſi ſit aliqḋ infinitū diſpo
ſituꝫ aliqua latitudine ꝙ totū in nulla ꝓportione ſit intē
ſius vel remiſſius ꝙ̄ gradus extēſus in infinitū. īfinita .n.
pars per infinitū modicum diſtat a gradu tali in infinitū
ꝓcedēte: tūc .a. eſt īfinite intēſum: qꝛ gradus īfinitus extē
diꝛ verſus īfinitū in .a. ꝯſequētia tenet per ſuppoſitionē: ꝛ
per illud .b. eſt īfinite remiſſum: ꝛ ꝙ quelibet pars peda
lis .a. ſit eque intēſa cuꝫ qualibet pte pedali .b. correſpōdē
ti ponit caſus. ¶ Pro iſto ꝯcedaꝛ caſus de pedalibus ꝯti
nue numerādo ab extremo finito. ꝛ negaꝛ ſuppoſitio: qꝛ
totū .a. nūc eſt eque intēſuꝫ ſicut ſi q̄libet pedale eius ad
vniformitatē .c. gradus adduceretꝛ: eo ꝙ quelibet pedali
tas .c. gradui correſpōdet: ꝛ ſic etiaꝫ eſt de .b. ſed de latitu
dine ꝯtinua eſt ſuppoſitio admittēda. ꝛ ſꝫ ꝓbat argumē
tuꝫ. Sed hic in omni pedali eſt tota latitudo vt .c. ꝛ ſic nō
eſt veruꝫ ꝙ īfinita pars per īfinite modicū diſtet ab infi
9ª ꝯclo nito ꝛc. ¶ A. eſt īfinite intēſum: ꝛ .b. ſolū finite intēſum: et
a. tm̄ ꝯtinue deꝑdet ſicut .b. ꝓciſe: ꝛ per tm̄ ſubm̄: ꝛ .a.
remitteꝛ ad nō gradum: ꝛ nō .b. Sit .a. īfinitū quātitatiue:
cuius pͥᵐ pedale habeat per totū īfinitas caliditates eque
intēſas. ꝛ per 2ᵐ pedale extēdanꝛ īfinite caliditates: qua
rum quelibet ſit ſubdupla ad quālibet caliditatē pͥmi pe
dalis. ꝛ per 3ᵐ pedale extēdanꝛ infinite caliditates: quaꝝ
quelibet ſit ſubdupla ad vnā illaꝝ que per 2ᵐ pedale ex
tēderetꝛ: ꝛ ſic in infinitū. Et ſit .b. aliud īfinituꝫ quātitatiue
habēs duas tales caliditates per totum: quales extēduntꝛ
per pͥmū pedale .a. ꝛ vnā aliam ſubduplā ad 1ᵃᵐ per totū:
ꝛ iterū aliam ſubduplā ad 1ᵃᵐ: ꝛ ſic in īfinitū. ꝛ in pͥma pte
ꝓportionali hui᷒ hoꝛe deꝑdat pͥᵐ pedale .a. vnā ſuaꝝ cali
ditatū. ꝛ in 2ª pte ꝓportionali deꝑdat 2ᵐ pedale pͥᵃᵐ ſuaꝝ
caliditatū: ꝛ pͥᵐ deꝑdat 2ᵃᵐ caliditatē. ꝛ in 3ª pte ꝓportionali
deꝑdat 3ᵐ pͥᵃˢ ſuaꝝ caliditatū: ꝛ 2ᵐ 2ᵃˢ: ꝛ pͥᵐ 3ᵃˢ: ꝛ ſic in īfi
nitū ita ꝙ deꝑdita vna caliditate illaꝝ deꝑdaꝛ caliditas
ſibi ꝓxima in numero: ꝛ ſic ſine fine. ꝛ in pͥª parte ꝓportio
nali hui᷒ hoꝛe deꝑdet pͥᵐ pedale .b. vnā illaꝝ caliditatū in
tēſiſſimaꝝ quas hꝫ per totū ſtāte alia vt ſit gr̄a argumēti
vtraqꝫ illaꝝ duaꝝ vt .iiij. tūc iſtud pͥᵐ pedale deꝑdet .iiij.
ſicut pͥᵐ pedale .a. ꝛ in 2ª pte ꝓportionali illi᷒ hoꝛe deꝑdat
2ᵐ pedale .b. vnā illaꝝ caliditatū intēſiſſimaꝝ per totum
ipm̄ .ſ. vt .iiij. ꝛ pͥᵐ tūc deꝑdat caliditatē ſubduplā ad pͥᵃᵐ:
ꝛ in 3ª pte ꝓportionali hoꝛe deꝑdet 3ᵐ pedale .b. vnā cali
ditatē vniformē vt .iiij. per ipm̄. ꝛ 2ᵐ pedale caliditatē ſub
duplā. ꝛ pͥᵐ pedale aliā ſubduplā ad illā quā deꝑdet 2ᵐ. ꝛ
ſic in īfinitū: tūc .a. eſt īfinite intēſum: qꝛ quelibet pedalis
q̄titas eius eſt īfinite intēſa: qꝛ pͥᵐ pedale hꝫ īfinitas cali
ditates: quaꝝ q̄libet eſt vt .iiij. per totū. g̊ pͥᵐ pedale eſt īfi
nite intēſum: ꝛ ita arguēdū eſt de omni alio pedali. g̊ .a. eſt
īfinite intēſum: ꝛ .b. ſolū finite intēſum: qꝛ eque intēſuꝫ ſi
cut ſi hēret tres tales caliditates per totū ſicut ille due cali
ditates intēſiſſime: quarum .ſ. vtraqꝫ eſt vt .iiij. qꝛ caliditas
ſubdupla ad vnā illaꝝ in duplo minus facit ad totius in
tēſionē ꝙ̄ caliditas vna illaꝝ: vt pꝫ. ꝛ 3ª in quadruplo mi
nus: qꝛ eſt in q̄druplo remiſſior: ꝛ ſic in īfinituꝫ. g̊ oēs cali
ditates ꝑter illas duas tm̄ faciēt ad totius intēſionē ſicut
vna 1ᵃᵐ. ꝯña tenet ſicut de q̄titate ſeu de quāto. Nā q̄ti
tas 2ᵉ ptis ꝓportionalis eſt ſubdupla ad pͥᵃᵐ ꝛ 3ª ſubqua
drupla ꝛ ſic deinceps: ꝛ totū ꝑter pͥᵃˢ ptē ꝓportionalē eſt
equale pͥᵉ pti. ſic igiꝛ eſt de intēſione. ſeqꝛ igiꝛ ꝙ .b. eſt ſolū
finite intēſum. Et ꝙ .b. ꝯtinue tm̄ ꝑdet ſicut .a. ꝛ per ptes
equales ꝓꝫ: qꝛ in pͥª pte ꝓportionali deꝑdet .b. per pͥᵐ ſuū
pedale quātū .a. per pͥᵐ ſuū pedale: qꝛ .iiij. vt ponit caſus: ꝛ
tūc ſolū per pͥᵐ pedale deꝑdet vtrūqꝫ caliditatē: ꝛ in 2ª pte
deꝑdet .b. tm̄ per 2ᵐ pedale ſicut .a. per pͥᵐ ſuū pedale: qꝛ
.iiij. vt poniꝛ: ꝛ per pͥᵐ pedale tūc deꝑdet .b. tm̄ ſicut .a. p
2ᵐ ſuū pedale: qꝛ 2ᵐ: ꝛ ſic in infinitū. g̊ ꝛc. Et ꝙ .a. remittaꝛ

ad nõ gradus p;q2.a.depdet ſm omne ei' pedale oēs ei'
calidi^tes que ſunt in eodē:vt p3 per caſum.igit̃ totuʒ.a.re
mitteť ad nõ gradū:ꝛ.b.in fine hēbit vnā illaꝝ cali^tum vt
iiij.per totū vt ɔſtat.igit̃ ſeqt̃ ɔcluſio. ❡ Ideo ɔcedit̃ cō
cluſio de imaginatiōe:q2 vtrūqꝫ hꝫ īfinitas calidi^tes:quaꝝ
q̃libet eſt vt.iiij.ideo.b.põt ɔtinue depdere calidi^tes vt.iiij.
duʒ tñ maneat in fine calidi^tas vt.iiij.per totū:ꝛ eo mõ põt
depdere ꝙ nihil in fine remanebit:vt nūc ɔſtat de.a.ideo
10ª ɔclo imaginabilis eſt ɔcluſio ꝛc. ❡ A.eſt īfinite remiſſe calidū
vel nõ calidū:ꝛ ꝓportionabilr̃ ſicut ſua caliditas extēdet̃
per ptes minores:ita aliqua eius pars ꝓportionabilr̃ fiet
intēſior:ꝛ in fine erit infi^te intēſe calidū. ❡ Cõtra i^m arg' per
eādē pōnem:q2 i^a po' oppo^m vt apparet. De tñ iſta ſequat̃
arg' ſic.deť.a.īfi^te q̃ntū:cui' p^m pedale ſit aliqualr̃ calidū ꝛ
pars q̃drupla ad illaꝫ ſibi ime^ta in duplo minus calida:ꝛ
alia pars ime^te illi in q̃druplo maior i^e ſit in duplo remiſ
ſior illa:ꝛ ſic in infi^m ſemꝑ q̃druplādo numerū pedaliū ꝛ
ſubduplādo intēſionē in cali^te ꝛ fluat i^a cali^tas extēſa per il
la.iiij.pedalia ꝑ ſignata q̃uſqꝫ extendat̃ per z^m pedale to
tius:ꝛ illa q̃litas que extēdit̃ per illa.xvi.pedalia extēdat̃
ꝑ 3^m pedale toti'.a:ꝛ ſic ponat̃ deinceps:ꝛ ponat̃ ꝙ ꝓpor
tionabilr̃ ſicut caliditas alicui' ptis.a.ꝑ minorē ptē extendat̃:
ita fiat intēſior q̃ꝫ nūc. Et ꝙ nūc hoc.a.ſit īfinite remiſſuʒ
p;q2 hꝫ īfinitā ptē infinite remiſſam:ꝛ reſiduū eſt ſolū fi
nite calidū ſic ɔſtat:ꝛ ꝓportionabilr̃ ſic caliditas alicuius
ptis extēdet̃ per partē minorē:ita fiet intēſior vt ponit̃ in
Nota regulaſ proponum. caſu:ꝛ ꝙ in fine erit totū īfinite calidū p;. ❡ Et ad ipſius
ꝓbationeʒ eſt notādū ꝙ ſi forēt duo equalia que deberēt
maiorari per aliq̃s ꝓportiones:ita ꝙ in fine ꝓportio vni'
ad ſeipm in pn^o eēt maior ꝓportione alteri' in fine ad ſe
ipm in pn^o per ꝓportionē quadruplā:vnū in fine ad aliud
eēt quadruplū.ſit enīʒ.a.illud qd̃ fiet maius:ꝛ.b.aliud:tūc
in fine ꝓportio.a.ad gradū ſub quo nūc ſunt.a.b.cōponet̃
ex ꝓportione.a.ad.b.ꝛ ex ꝓportione.b.ad eūdē gradū.cū
igit̃ ꝓportio.a.ad illū gradū excedit ꝓportionē.b.ad eūdē
gradū per ꝓportionē quadruplā.ſeqt̃ ꝙ erit ꝓportio qua
drupla.a.ad.b.q2 ꝓportio.a.ad illū gradū nõ excedet ꝓ
portionē.b.ad illū niſi per ꝓportionē illā que erit.a.ad.b.
vt ſatis p;:vbi ponunt̃ regule de motu locali.v.g.ſi illud
qd̃ eſt in ꝑncipio ſit vt vnū ꝛ augmētabit̃ ad duo:ꝛ aliud
augmētabit̃ per ꝓportionē quadruplā ſupra illā per quā
augmētabit̃ aliud.ſequit̃ ꝙ illud qd̃ in ꝓpor^e quadrupla
ſupra aliud augmentabit̃ erit vt.viij.in fine. Hoc habito
ſic arguit̃. In fine erit p^m pedale.a.aliqualr̃ intēſuʒ:ꝛ z^m in
duplo intēſius:ꝛ 3^m in duplo intēſius q̃ꝫ z^m:ꝛ ſic in infinitū.
igit̃ totū eēt tūc īfinite intēſuʒ.aſs arguit̃ ſic.z^a pars cali
da eſt in duplo remiſſior ꝓciſe q̃ꝫ p^m pedale:ꝛ eſt in q̃dru
plo maior:ꝛ ſua caliditas erit in fine in q̃druplo intēſior q̃ꝫ
nūc eſt:q2 ſolū tūc extēdet̃ per pedale.g̃ tūc erit caliditas
ſcd̃i pedalis in duplo intēſior q̃ꝫ caliditas ꝑmi. ❡ Silr̃ 3^a
pars calida eſt in quadruplo maior q̃ꝫ z^a pars calida:cui'
caliditas in fine extēdet̃ per pedale ſolū.ꝛ ſicut ꝓportio
nabilr̃ extēdet̃ per ſubm minus:ita fiet intēſior.igit̃ ꝓpor
tio per quā fiet intēſior caliditas 3^e ptis q̃ꝫ nūc eſt:excedet
ꝓportionē per quā fiet caliditas z^e ptis date intēſior per
ꝓportionē quadruplā q̃ꝫ ſi nūc eēnt ille due calidi^tes equa
les:ꝛ p; ꝙ caliditas 3^i pedalis eēt tūc quadrupla ad cali^tem
z^i pedalis:iuxta illud nõbile ꝑ ꝓpoſitū.ſed nūc eſt illa ca
liditas 3^e ptis in duplo remiſſior q̃ꝫ caliditas z^e.igit̃ in fi
ne erit caliditas illi' tertij ſolū in duplo intēſior calidi^te ſe
cūdi:ꝛ ita de oībus duab' aliis ptib' imediate ſignatis eſt
arguendū.igit̃ ſeqt̃ ɔcluſio:que põt ɔcedi de imaginatio
ne. Et cū eſt:q2 nulla pars finita finite intēſa reſpectu to
tius infiniti aliqd cōfert:q2 nullā habet ꝓportionē ad il
lud infinitū:ſi tñ ſubm eſſet finitū ɔcluſio nõ foret imagi

nabilis:q2 tūc ɔcluſio imediate repugnaret illi poſitioni:
q2 tūc quelibet pars in cōparatiōe ad totū ɔferet aliquā
tum:ꝛ ſic nõ eſt nūc:ideo nullū arg^m ꝓcedit de infinito ſi
cut faceret de finito. ❡ Aliqua duo ſunt eq̃lia:quoꝝ par 11ª ɔclo
tes equales ſunt eque intēſe ꝓciſe:ꝛ totuʒ reſiduū vtriuſqꝫ
eſt nõ qualificatū:ꝛ tamen vnū eſt alio in duplo intēſius.
❡ Cõtra quā ſic arguit̃. Si vtriuſqꝫ ptes eq̃les ſunt eque
intēſe.ergo equalr̃ totū ſubm denoiabūt:vel neutrū aliq̃
liter denoiabūt:que tñ cōcluſio ſequit̃ ex poſitione ſic ar
guit̃.ſint.a.b.duo pedalia:ꝛ ſit vna medietas.a.calida ſub
certo gradu:ꝛ totum reſiduū nõ qualificatū:ꝛ ſit vna me
dietas.b.in duplo remiſſior q̃ꝫ illa medietas.a.ꝛ reſiduuʒ
nõ qualificatū:ꝛ rareſiāt medietates nõ qualificate in in
finitū:ꝛ intēdant̃ alie medietates:ita ꝙ ꝓpter rarefactio
neʒ neutrū intēdat̃ nec remittat̃.qd̃ videt̃ poſſibile:eo ꝙ
quātuʒ tollet huius rarefactio de toti' intēſione tātuʒ põt
intēſio illi' caliditatis tribuere de intēſione:quo poſito in
fine erit ɔcluſio vera:quia tūc hec pars erit vera.a.b.ſunt
duo equalia:q2 vtrūqꝫ tūc erit īfinitū:ꝛ.a.tūc erit in duplo
intēſius.b.q2.a.nūc eſt in duplo intēſius.b.ꝛ neutrū intē
det̃ nec remittet̃.ergo in fine erit.a.in duplo intēſius.b.ꝛ
tūc ptes calide.a.ꝛ.b.erūt equales per totuʒ:q2 ſemipeda
lis quātitas vtriuſqꝫ.ꝛ iſte ptes erūt eque intēſe:q2 vtraqꝫ
tūc erit īfinite intēſa:qd̃ ſic arguit̃. Si ille ptes eēnt finite
intēſe:nihil ad totius denoiationē cōferēt vt ꝑdictū:ꝛ etiā
reſpectu alicui' finiti aliquātuluʒ cōferēt:ꝛ reſpectu alte
rius in duplo maioris:in duplo minus cōferēt ꝓpter ma
iorationē ꝓportionis illaꝝ partiū in cōparatiōe ad totū:
vt cõſtat per poſitionē.igit̃ reſpectu īfiniti nihil cōferūt.
igit̃ cum totū nõ intēdet̃ nec remittet̃ ꝓpter rarefactioneʒ
ptis nõ qualificate in īfinituʒ:ꝛ ꝓpter intēſionē ptis remiſ
ſe:ſeqt̃ ꝙ ſicut illa pars nõ qualificata maiorabit̃ in in
finitū:ita relinquit̃ ꝙ pars qualificata intēdat̃ in īfinitū.
ſequit̃ g̃ ɔcluſio. ❡ Ex h̃ etiā deducit̃ ꝙ.a.b.equalia hñs 12ª ɔclo
ptes qualificatas ꝓciſe eque intēſas per totū:ꝛ pars.b.per
totū intēſa erit in duplo maior pte.a.ſm ſe totaʒ intēſa:ꝛ
tñ ideʒ.b.eſt in duplo remiſſius.a.h̃ videt̃ repugnare po
ſitioni vt ꝑus. ❡ Et h̃c arguit̃ ſeq.ponat̃ enim de.a.b.vt
ꝑus.ꝓter hoc ꝙ.b.ſit in duplo maioris q̃ntitatis q̃ꝫ.a.ꝛ ha
beat.b.q̃litatem per medietatē ſui in duplo remiſſiorē q̃ꝫ
a.habet per ſui medietatē:ꝛ fiat maioratio ptiū nõ quali
ficataꝝ.a.ꝛ.b.in īfinitū:ꝛ intēdant̃ qualitates illoꝝ:ita ꝙ
illa nõ intēdant̃ nec remittant̃:ꝛ ſequit̃ ꝙ in fine erit.b.in
duplo remiſſius.a.q2 nūc eſt.b.in duplo remiſſi'.a.ꝛ neu
trū intēdet̃ nec remittet̃ per caſum:ꝛ in fine erit pars.b.
ſm ſe totā qualificata in duplo maior q̃ꝫ pars qualificata
a.q2 iſta erit pedalis:ꝛ pars q̃lificata.a.ſolū ſemipedalis
vt ponit̃:ꝛ ille ptes.a.b.ſm ſe totas qualificate erūt eque
intēſe.g̃ ſequit̃ ɔcluſio. ❡ Cõſilr̃ arguit̃ oino ꝙ.b.tūc erit
in duplo intēſius.a.q2 qualitas que tūc erit per ſemipeda
le.b.tātū faciet ad toti' intēſionē:ſicut iſta qualitas per ſe
mipedale.a.faciet ad intēſionē.a.eo ꝙ erūt eque intēſe qua
litates:ꝛ tātuʒ tūc faciet qualitas extēſa per vnū ſemipe
dale.b.ſicut per aliud:q2 ɔſilis eſt per vnū ſemipedale.b.
ſicut per aliud.g̃ in duplo plus faciet tūc tota qualitas.b.
ad eius intēſionē q̃ꝫ tota qualitas.a.ad intēſionē.a.ergo ſe
quunt̃ ɔdictiones. ❡ Pro iſtis negat̃ vtraqꝫ ɔcluſio:ꝛ dī Rñ^o ad
ꝙ in fine nec.b.nec.a.erit caliduʒ.vnde caſus eſt poſſibi duas ɔ
lis:ꝙ.ſ.pro omni inſtāti citra finē tam.a.q̃ꝫ.b.maneat ɔti nes.
nue eque intēſuʒ ſicut ipſūmet nūc eſt:nõ tñ in fine:q2 il
la rarefactio in fine plus tolleret q̃ꝫ poneret aliqua quali
tas finita per illud ſemipedale.ideo nulla qualitas finita
nec īfinita plus põt denolare totū q̃ꝫ mā i^a infinita impe
dit:que.ſ.qualitas per ſubm ſolū finitū extēdit̃. ❡ Cõtra
hāc reſpōſionē forte ſic arguit̃.ſit.a.īfinitū hñs caliditatē

vniformē

vniformẽ per totum:ꝛ ponat̃ ꝙ quelibet caliditas que in aliqua pte pedali extẽdit̃: extẽdat̃ per p^m pedale. ꝛ appa-ret ꝙ q̃libet caliditas in fine equalr̃ totũ denoiabit ſicut in pn^o ꝛc. ḡ rñſio falſa. Añs arguit̃: eo ꝙ quelibet illaꝝ nũc
Rñſio per equale ſubm̃ extẽdet̃ ſicut in pn^o extẽdit̃. ¶ Pro quo. dĩ vt ptꝫ ꝙ nulla illaꝝ caliditatũ que per pedale ſeu per finitũ extẽdit̃: aliqd ad totius intẽſionẽ addit. Sꝫ tota caliditas extẽſa per totũ ſeu per infinitũ totũ facit intẽſum: accipiẽdo ly totũ cathe^{ce}. ꝛ ideo eſt falſũ ꝙ nũc quelibet illaꝝ caliditatũ faciat equalr̃ ad totius intẽſionẽ ſicut nunc: qꝛ iplicat quãlibet illaꝝ nunc aliqd facere. ꝛ ſi loquamur de tota caliditate que nũc extẽdet̃ per pedale ſolũ: ꝛ per ↄñs nõ per tãtũ ſicut in pn^o: ꝛ ſic nõ ꝑcedit arg^m. ¶ Infinita quaſi ſophi^a poſſunt fieri de infinito que oĩa ſi diligẽter inſpexeris ꝙ nullius ptis ad totũ infinitũ eſt aliqua
13ª ↄclõ ꝓportio: facilr̃ diſſoluere poteris per p̃dicta. ¶ Aliquid poſt hoc ĩfinite tarde intẽdit̃ qḋ ↄtinue infinite velociter intẽdet̃. ſint enim ĩfinita paſſa equalia ꝛ ↄſilia: quoꝝ vnũ incipiat alterari vniformiter per partẽ ante partẽ gradu aliq̃: ꝛ aliud per ptẽ ante partẽ gradu duplo: ꝛ aliud gradu quadruplo ꝛ ſic deinceps. ita ꝙ vniformiter ꝛ eque velociter ꝓgrediant̃ alterationes ille: tũc arguit̃ ſic. Immediate poſt hoc infinite tarde q̃libet illoꝝ intẽdet̃: qꝛ per partẽ poſt partẽ: ꝛ cõtinue poſt hoc in infinitũ velociter intẽdet̃ aliqḋ illoꝝ. igit̃ ꝛc. negat̃ ↄcluſio ꝛ p^a cõſequentia.
14ª ↄclõ ¶ Aliqḋ paſſum per totã illã horã ĩfinite tarde intẽdet̃. ponat̃ caſus poſit^9 prius. Sꝫ ponat̃ ꝙ ſicut ꝓportionabiliter vna alteratio eſt ↄtinue alia intẽſior ſic tardius ꝓgrediat̃: ita ꝙ oĩa cõtinue eque velociter alterent̃: tũc ſequit̃ ꝙ oĩa illa paſſa equalr̃ incipiãt intẽdi: ꝛ cõtinue eque velociter alterabunt̃: ſed cõtinue ĩfinite tarde alterabit̃ aliquod illoꝝ: qꝛ cõtinue alterabit̃ aliqḋ illoꝝ ita tarde ſicut iam incipit alterari: ꝛ per ↄñs q̃libet illoꝝ infinite tarde cõtinue intẽdet̃. Siliter pro ↄne ponat̃ ꝙ aliqd incipiat alterari per partẽ ante partẽ certo gradu ꝛ remittat̃ ſua alteratio: ita ꝙ ꝓportionabilr̃ ſicut alterabit̃ per maiorẽ partẽ ſic alteret̃ gradu remiſſiori ꝛc. ſequit̃ ꝙ ĩfinite tarde alterabitur: qꝛ ita tarde cõtinue ſicut iam incipit. ḡ ꝛc.
¶ Ad p^m arg^m negat̃ ꝙ ĩfinite tarde cõtinue intẽdet̃ aliqḋ illoꝝ: ꝛ etiã negat̃ ꝙ per ita modicã partẽ: ꝛ ita remiſſo gradu alterabit̃ aliqḋ illoꝝ ſicut iaꝫ incipit: nec ſequit̃ ꝙ per ita modicã ptẽ cõtinue alterabit̃ aliqḋ illoꝝ ſicut iam incipit: ſꝫ per ĩfinite modicã partẽ cõtinue alterabit̃ aliqḋ illoꝝ: ꝛ per ĩfinite modicã ptẽ ↄtinue alterabit̃ aliqḋ illoꝝ: ꝛ per ĩfinite modicã ptẽ incipiat q̃libet alterari: ſꝫ ſequit̃ oppo^m. ¶ Ad z^m dĩ ꝙ caſus nõ eſt poſſibilis niſi incipiat alteratio remitti a gradu ĩfinito: ꝛ ſic admittat̃ caſus: ꝛ negat̃ ꝙ infinite tarde iam incipit alterari. ſꝫ certe velociter incipit. vnde lꝫ per ĩfinite modicã ptẽ incipiat alterari: nõ ſeq̃t̃ ꝙ ĩfinite tarde ꝛc. qꝛ alteratio eſt ĩfi-
15ª ↄclõ nita. ¶ Alique ſunt caliditates: quaꝝ q̃libet eſt ĩfinite remiſſa vel nõ intẽſa: ꝛ tñ tota caliditas ex his cõpoſita eſt ĩfinita. ¶ Uel ſeq̃t̃ iſta ↄclõ ꝙ alique ſunt ĩfinite q̃litates ĩfinite intẽſe nõ cõicãtes: tñ totũ cõpoſitũ ex his eſt ĩfinite remiſſum: vel nõ intẽſum: vel ſolũ ĩtẽſum finite. ¶ Itẽ ſeq̃t̃ ꝙ ad oẽꝫ pũctũ huius eſt ĩfinite intẽſa caliditas ſine frigiditate: ꝛ tñ totũ nõ eſt ĩfinite calidũ. ¶ Cõtra p^{am} arguit̃ ſic. ſi quelibet illaruꝫ eſt ĩfinite remiſſa vel nõ intẽſa tota cõpoſita ex his nõ eſt ĩfinite intẽſa: ſicut ſi eẽnt ĩfinite q̃ntitates per imaginationẽ ĩfinite modice: ſi eẽt aliqua quãtitas ſolum ex his cõpoſita: a^a quãtitas nõ eẽt infinita.
¶ Silr̃ z^a ↄcluſio eſt falſa. Si eiꝫ eẽnt ĩfinite quãtitates equales nõ cõicãtes: quaꝝ quelibet eẽt ĩfinita tota ex his cõpoſita nẽcio eſſet ĩfinita. ḡ ſic erit de qualitate. ¶ Silr̃ 3ª ↄcluſio eſt falſa. Si, p. ad oẽm pũctũ ſit ĩfinita caliditas ſine frigiditate: quelibet eius pars ĩfinite denoiabit̃ ab i^a q̃litate. ¶ Et ꝙ ↄñes ſequant̃ ex poſitione ſic arguit̃. Capiant̃ ĩfinite caliditates: quaruꝫ quelibet ſit ĩfinita extẽſiue: ita ꝙ p̓me illaꝝ ſit p^a q̃litas pedalis aliqualr̃ intẽſa: ꝛ z^a in duplo remiſſior: ꝛ ſic in ĩfinitũ. ꝛ ſit p^a pedalis z^e caliditatis in duplo intẽſior q̃̄ p^a p̓me: ꝛ z^a in duplo intẽſior q̃̄ z^a p̓me: ꝛ ſic in ĩfinitũ. ꝛ ſit p^a pedalis 3^e caliditatis in duplo intẽſior q̃̄ p^a z^e: ꝛ z^a in duplo intẽſior q̃̄ z^a euiſdeꝫ: tũc ſic arguit̃. Cuiuſlibet illaruꝫ pars ĩfinita eſt ĩfinite remiſſa: ꝛ totũ reſiduũ eſt ſolũ finite intẽſuꝫ vt ↄſtat. ḡ q̃libet illarũ vt ſic extẽdit̃ eſt ĩfinite remiſſa vel nõ intẽſa: qꝛ ſi correſpõdet certo gradui vt ſic extẽdit̃ certo gradu vel certa inten^e ſuũ ſubm̃ ſufficeret denoiare: eo ꝙ cum qualitate ↄtra nõ extẽdit̃ vt ſuppono. ḡ ſeq̃t̃ ꝙ quelibet illaꝝ eſt ĩfinite remiſſa. coextẽdant̃ ḡ iſte qualitates ĩfinite adinuicẽ p^e pedales ſimul: ꝛ ſc̄de ſimul: ꝛ ſic in ĩfinitum: ita ꝙ ex his fiat vna qualitas: ꝛ ſeq̃t̃ ꝙ tota qualitas ex his cõpoſita eſt infinite intẽſa: ꝛ tũc ſequit̃ p^a ↄcluſio. ¶ Si forte dĩ ꝙ tota eſt ĩfinite remiſſa: qꝛ habet ĩfinitã ptẽ infinite remiſſam: vel ꝙ tota i^a qualitas ſit ſolũ finita: tũc ſeq̃t̃ z^a ↄcluſio. nã capiat̃ caliditas cõpoſita ex oĩbus p̓mis pedalib^9: ꝛ ſeq̃t̃ ꝙ i^a eſt ĩfinite intẽſa. nã p^a pedalis p̓me caliditatis eſt aliqualiter intẽſa. ꝛ p^a pedalis ſc̄de caliditatis eſt in duplo intẽſior: ꝛ ſic in ĩfinitũ. ḡ tota ex his cõpoſita eſt ĩfinite intẽſa. ꝛ ſic eſt etiã de caliditatib^9 cõpoſitis ex ſc̄dis pedalib^9. ꝛ ſic in ĩfinitũ. ḡ quelibet illaꝝ caliditatũ infinitaꝝ ſic cõpoſitaꝝ eſt ĩfinite intẽſa: ꝛ tñ tota cõpoſita ex his eſt ſolũ finite intẽſa: vel nõ intẽſa iuxta rñſionẽ. ḡ ſeq̃t̃ ↄcluſio z^a.
¶ Silr̃ data illa reſpõſione ſequit̃ 3ª ↄcluſio. Nã capiat̃ hui^9 ſubm̃ infinitũ per qḋ oẽs iſte caliditates ſic coextẽſe extẽdunt̃: tũc ad oẽꝫ pũctũ huius eſt ĩfinita intẽſa caliditas ſine frigiditate vt ptꝫ: qꝛ ad oẽm pũctũ ſunt ĩfinite hui^9 caliditates: quaꝝ q̃libet eſt intẽſior p^a illaꝝ ad illũ pũctũ exiſtẽs: ꝛ tñ totũ nõ eſt infinite calidũ: qꝛ totũ nõ eſt calidũ niſi per caliditatẽ totã: ꝛ i^a caliditas eſt ſolũ finite intẽſa. ḡ ſolũ finite illud ſubm̃ denoiabit. ↄña tenet. ꝛ añs ponit̃ in rñſione nũc recitata. ſequit̃ ḡ p̓ma ↄcluſio vel alie due.
¶ Ideo p^a ↄcluſio põt ↄcedi ſuſtinẽdo ꝙ caliditas eſt intẽſior vel remiſſior ꝓꝑ diuerſam extẽſionẽ: ſicut rõne diuerſe extẽſionis ſuũ ſubm̃ magis vl̃ minus denoiat. ¶ Et ad ar^m quo arguit̃ ꝑ ſilitudineꝫ de q̃ntitate nõ ꝓcedit: qꝛ q̃uis tota caliditas cuiuſlibet illaꝝ ĩfinito remiſſo gradui correſpondeat ad oẽm pũctũ tñ intrinſecuꝫ eſt certa intẽſio. ꝛ ideo facta extẽſione taliuꝫ q̃litatũ adinuicẽ reſultabit ad oẽm pũctũ q̃litas ĩfinita: ꝛ per ↄñs tota q̃litas erit ĩfinite intẽſa: qꝛ hoc eſt ipoſſibile ꝙ in iſto ſubto eſt tota caliditas ſolũ finite intẽſa vel remiſſa: ꝛ tñ nullus eſt pũct^9 talis ad quẽ eſt certa q̃litas: ſꝫ de q̃ntitate ſi ipſa eẽt ĩfi^{te} modica nõ vbiq foret certa q̃ntitas. ꝛ iõ ar^m nõ ꝓcedit. ¶ Multa alia poſſent fieri ſophi^{ta} ꝑ rarefactiõeꝫ ſubti: ꝛ ꝑ fluxũ q̃litatis ꝛ alterationis q̃li^{ter} ſi ſubm̃ dꝫ itẽdi ꝛ remitti ꝑ hõ rarefactiõeꝫ ꝛ fluxũ ꝛ alterationẽ: ad que oĩa ↄſiderãdo ꝓportionẽ totius ad partẽ: rñſionẽ elicere poteris ex p̃dictis faciliter.

¶ Tractatus tertius. De intẽſione elementi habẽtis duas qualitates non eque intenſas.

DIcto penes qd attendit̃ inten^o rei per vnã q̃litatẽ. reſtat nunc dicere penes qd attẽdat̃ intẽſio elñti habẽtis duas qualitates p^{te} inequa intẽſas. Circa quã materiã tres ſunt poſitiones. ¶ Prima poſitio p^a põ ponit ꝙ elñtũ i^o correſpõdet gradui medio per eque diſtãtiã iter illas qualitates. ¶ Scd̃a ponit ꝙ eſt eque intẽſuꝫ cũ z^a q̃litate ſua remiſſiori. ¶ Et 3ª ponit ꝙ eſt eque intẽſuꝫ cũ 3ª gradu medio ꝓportionali iter illas qualitates. ¶ Contra p^{am} pȯ p^{am} arguit̃. ex i^a ſequunt̃ q̃nqꝫ ↄñes. Prima ꝙ aliqd per ſitionem. 5ª ↄcloneſ

2 magnū tēpus ꝯtinue īfinita velocitate aget. ¶ Silr ſeq̄
3 ꝙ a ꝓportione finita ꝓuenit mot⁹ īfinitus. ¶ Tertia ſeq̄
ꝙ .a. plus diſtat a nō gradu ꝗ̄ .b. a ſūmo ⁊ equevelociter ⁊
cōtinue remittet̄ .a. ſicut .b. intēdet̄: ⁊ tñ equecito ꝑciſe re-
4 mittet̄ .a. ad nō gradū ſicut .b. intēdet̄ ad ſūmū. ¶ Quar-
ta nō eſt poſſibile in mixto ex elītis ꝯuenientib⁹ ⁊ in qua-
litatib⁹ ſymbolis vnū equalr̄ diſtare a nō gradu ſicut re-
5 liquū a ſūmo. ¶ Quinta .a. ꝯtinue intēdet .b. ⁊ tñ i⁹ .a. re-
ꝯtra pᵃᵐ mittet illud .b. ad nō gradū. ¶ Cōtra pᵃᵐ ꝯnem arguit̄: qꝛ
ꝯnem. nūc i⁹ agēs ageret ꝯtinue a ꝓportione īfinita: ⁊ per ꝯñs ſu-
bito corrūpet i⁹ in quo ageret: ⁊ ſubito infinitā latitudinē
induceret: qꝛ aliqualr̄ velociter agendo in aliq̄ tpe finito
ſuū paſſuȝ corrūpet: ⁊ etiā in duplo velocius agēdo in du-
plo citius corrūpet: ⁊ ſic in īfinitū. ğ ſi īfinite velociter ꝯti-
nue ageret ſubito ad nō gradū ipm corrūpet ſeu remitte-
ret. Qꝫ tñ iſta ꝯclō ſequat̄ arguit̄ ſic. ponat̄ ꝙ .a. ſit vnus
ignis ſūmus agēs in .b. aerem ſūmū: tūc nō ſubito aget .a.
per totū .b. qꝛ citius aget per medietatē ꝗ̄ per totum: ⁊ ſic
de ptib⁹ aliꝗ̄s: qꝛ citius aget per ptē minorē ꝗ̄ per maiorē.
Tūc ſic arguit̄ imediate poſt hoc erit ſiccitas ad aliqueȝ
punctū .b. ⁊ caliditas cōtinue tūc erit ſūma in .b. Sȝ ſi ca-
liditas ſit ſūma ⁊ ſiccitas aliquāta ignis ibi eſt ſupra gra-
Suppōit dū mediū totius latitudinis: eo ꝙ tūc gradus medius in-
forᵃˢ ſub- ter caliditatē ⁊ ſiccitatē eſt ſupra mediū tot⁹ latitudinis.
ſtantiales igit̄ imediate poſt hoc erit in mā ipius .b. gñatus ignis ſu-
elītoꝝ itē pra gradū mediū: ⁊ nūc nō eſt ibi aliqs ignis. igit̄ infinita
di ⁊ remit velocitate incipit .a. agere in .b. gñando ibi igneȝ: ⁊ ꝯtinue
ti mr̄ opio īfinita velocitate aget quouſqꝫ actio ſua deueniet per to-
nē Com. tuȝ .b. qꝛ poſt qōlibet inſtās illi⁹ tpis imediate aget in ali-
quā partē .b. in quā ante illud inſtās nō egit: ⁊ per ꝯñs im-
mediate poſt qōlibet inſtās gñabit igneȝ a nō gradu vſqꝫ
ad gradū ſupra mediū gradū tot⁹ latitudinis ſicut in pri⁹
incepit: qꝛ q̄cito erit actio in aliq̄ pte: ibi erit caliditas ſū-
ma ⁊ ſiccitas aliquāta. cū igit̄ ꝯtinue aget ſiccitas in ali-
qua pte vbi prius nō fuit. ſequit̄ ꝙ ꝯtinue gñabit igneȝ a
nō gradu ad gradū ſupra mediū: ⁊ per ꝯñs ꝯtinue ſubito
magnā latitudinē inducet: ⁊ ſi ſic ꝯtinue infinita velocita-
ꝯ 2ᵃᵐ cō- te aget. ergo ſequit̄ ꝯcluſio pma. ¶ Cōtra 2ᵃᵐ ꝯcluſioneȝ
cluſionē ſic arguit̄. Mot⁹ ſeq̄ ꝓportionē po͛ ſupra reſiſtētiā ſuā.
igit̄ a ꝓportione finita ꝓuenit motus ſolū finit⁹. ergo cō-
cluſio falſa. Sȝ ꝙ iſta ſequat̄ arguit̄ ſic. a. habet ad .b. ꝓ-
portionē finitā: qꝛ .a. eſt ſoluȝ po͛ finite: ⁊ .b. reſiſtētie fini-
te: ⁊ īfinita velocitate ꝯtinue aget .a. in .b. vt eſt argutuȝ in
ꝯtra 3ᵃᵐ caſu tacto. ergo ſequit̄ ꝯcluſio. ¶ Cōtra 3ᵃᵐ ꝯcluſionē ar-
guit̄ ſic. Si per plus diſtat .a. a non gradu ꝗ̄ .b. a ſūmo: ſit
c. vnus gradus a quo .a. equalr̄ diſtat ſicut .b. a ſūmo. tunc
ſic. ſi .a. eq̄uelociter remittet̄ preciſe ſicut .b. intēdet̄: ſequit̄
ꝙ equecito .a. deueniet ad .c. gradū ſicut .b. ad ſūmū. ſed ci-
tius deueniet .a. ad .c. gradū ꝗ̄ ad nō gradū. igit̄ citius de-
ueniet .b. ad ſūmū ꝗ̄ .a. ad nō gradū. minor pȝ: qꝛ .c. eſt me-
diū inter .a. ⁊ nō gradū. ¶ Qꝫ aūt iſta ꝯcluſio ſeq̄ arguit̄
ꝓ pmo ſic: qꝛ ſi forēt tria: quoꝝ pᵐ qō ſit .c. equalr̄ excedit
8.6.4. c.d.e. 2ᵐ qō ſit .d. ſicut .d. excedit 3ᵐ qō ſit .e. tūc ſi .e. fieret remiſ-
ſius ſtāte .c. ita ꝙ .d. ſemꝑ foret medium equalr̄ iter .c.e. in
8.5.2. c.d.e. duplo tardius remittet̄ .d. ꝯtinue ꝗ̄ .e. qꝛ ſi .d. ſit medium
īter .c.e. per induplo minus diſtat .c. a .d. ꝗ̄ .c. a .e. ⁊ ita cōti-
nue foret. ğ in duplo tardius ꝯtinue ꝑciſe maiorabit̄ diſtā-
tia iter .c.d. ꝗ̄ iter .c.e. ⁊ ſic in duplo tardius remittet̄ .d. ꝗ̄
e. qō fuit ꝓbādū. ¶ Ex iſto arguit̄ ꝙ ſequit̄ ꝯcluſio: ⁊ po-
nat̄ ꝙ ſit aliqō mixtū equalr̄ cōpoſitū ex igne ⁊ aere: ita
ꝙ humiditas ſit in gradu medio: ⁊ ſic ſiccitas ſilr̄: ⁊ ſit cali-
ditas ſūma: ⁊ ſit .a. aer iſti⁹ mixti ⁊ .b. ignis: ⁊ remittat̄ hu-
miditas ad nō gradū ⁊ eq̄uelociter intēdat̄ ſiccitas. ⁊ ſeq-
tur tūc ꝙ .a. per plus diſtat a nō gradu ꝗ̄ .b. a ſūmo: qꝛ in-
tēſio .a. correſpōdet gradui medio iter gradū mediuȝ ⁊ ſum-

muȝ: qꝛ caliditas eſt ſūma ⁊ humiditas in gradu medio ⁊
elītū correſpōdet gradui medio iter qualitates ſuas pᵃˢ. igit̄
ſeq̄ ꝙ .a. eſt ſupra gradū mediū tot⁹ latitudinis: ⁊ .b. ſilr̄:
qꝛ caliditas .b. eſt ſūma ⁊ ſiccitas in gradu medio: ſȝ omne
qō eſt ſupra mediū per plus diſtat a nō gradu ꝗ̄ aliqd ſu-
pra mediū diſtat a ſūmo: vt pȝ. igit̄ ſeq̄ ꝙ .a. per plus di-
ſtat a nō gradu ꝗ̄ .b. a ſūmo: ⁊ equevelociter ꝯtiᵉ remittet̄ .a.
ſicut itēdet̄ .b. qꝛ .a. in duplo tardius ꝑciſe remittet̄ ꝗ̄ ſua
humiditas: ⁊ .b. in duplo tardius intēdet̄ ꝗ̄ ſua ſiccitas: ſȝ
humiditas .a. equevelociter remittet̄ ſicut ſiccitas .b. intē-
det̄. igit̄ equevelociter remittet̄ .a. ſicut .b. intēdet̄. ꝯñtia ⁊
minor patent. ⁊ maior arguit̄: qꝛ intēſio .a. ꝯtinue erit ſub
gradu medio iter caliditatē ſūmaȝ ⁊ humiditatē: ⁊ calidi-
tas ꝯtinue ſtabit. igit̄ in duplo tardius ꝯtinue remittet̄ .a.
ꝗ̄ ſua humiditas. ꝯñtia pȝ per pius argutū de .c.d.e. Et cō-
ſilr̄ arguit̄ ꝙ .b. in duplo tardius ꝯtinue intēdet̄ ꝗ̄ ſua ſic-
citas: qꝛ caliditas ſua ꝯtinue ſtabit ⁊ eius iten⁹ ꝯtinue cor-
reſpōdebit gradui medio iter caliditatē ⁊ ſiccitateȝ. Et ꝙ
equecito deueniet .a. ad nō gradū ſicut .b. ad ſūmuȝ pȝ: qꝛ
equecito remittet̄ humiditas .a. ad nō gradū ſicut intēdet̄
ſiccitas .b. ad ſūmuȝ: vt pȝ: qꝛ cū ſiccitate ſūma nō ſtat hu-
miditas: ⁊ cum humiditas .a. fuerit remiſſa ad nō graduȝ
erit .a. remiſſa ad nō gradū: ⁊ cum ſiccitas .b. fuerit ſūma
erit .b. ſūmuȝ. igit̄ equecito deueniet .a. ad nō graduȝ ſicut
b. ad ſūmuȝ: qō fuit ꝓbādū. igit̄ ſequit̄ ꝯcluſio. Ideo forte
dī ꝙ nō eſt incōueniēs: qꝛ .a. deꝑdet magnam latitudinē
ſubito: ⁊ .b. nullā acq̄ret ſubito. ¶ Cōtra. ex quo nō remit-
tet̄ .a. niſi per remiſſioneȝ ſue humiditatis: nec .b. intēdet̄
niſi per itēſionē ſue ſiccitatis que erit eq̄lis remiſſioni hu-
miditatis .a. igit̄ ſi .b. nullā itēſionē rōne intēſionis ſiccita-
tis ſubito acq̄ret: nec .a. rōne remiſſionis humiditatis ali-
quaȝ latitudinē ſubito deꝑdet. Itē ſic dato iſto ſequit̄ cō-
cluſio pma: qꝛ pius corrūpet humiditatē in ꝓpinquo agē-
ti ꝗ̄ in remoto. igit̄ ſi fiat partibiliter quo ad ſubm corru-
ptio humiditatis ad nō gradū ſubito ad aliquē pūctū cō-
tinue deꝑdet̄ tāta inten⁹ ſicut eſt a gradu medio vſqꝫ ad nō
gradū. que ꝯcluſio repugnat rōni: eo ꝙ ex iſto ſequit̄ mo-
tuȝ nō ſequi ꝓportionē ⁊c̄. ¶ Cōtra quartā ꝯcluſionē ar- ꝯtra 4ᵃᵐ
guit̄ ſignato aliquo mixto vnū elementuȝ pōt partibiliter
deꝑdi ad non gradū ſicut pōt aliud partibiliter intēdi ad
ſūmū. ergo pōt eſſe aliqualr̄ diſtās a nō gradu ⁊ in duplo
minus ⁊ in quadruplo minus: ⁊ ſic deinceps. ergo ꝯcluſio
nō eſt vera. Similiter capiat̄ vnū huiꝰ mixtū: ⁊ ſit gra exē-
pli equalr̄ ex igne ⁊ aere: citius ignis intēdat̄ ad ſummū ⁊
aer remittat̄ ad nō gradū per remiſſionē humiditatis: tūc
equevelociter remittet̄ aer ſicut intēdet̄ ignis: quia aer in
duplo tardius remittet̄ ꝗ̄ ſua humiditas: ⁊ ſiccitas in du-
plo velocius intēdet̄ ꝗ̄ iſte ignis: ⁊ humiditas equevelo-
citer remittet̄ ſicut ſiccitas intēdet̄. igit̄ equevelociter re-
mittet̄ aer ꝯtinue ſicut intēdet̄ ignis. añs pȝ per argumē-
tuȝ factū ad ꝯcluſionē primā. Cum igit̄ aer equecito de-
ueniet ad nō gradū ſicut ignis intēdet̄ ad ſūmuȝ: qꝛ cum
igne ſūmo nō ſtat aer: qꝛ tūc cum ſiccitate ſūma ſtaret hu-
miditas. ꝯſequēs falſum: igit̄ per tātū diſtat aer a nō gra-
du ſicut ignis a ſūmo. Nō .n. poſſibile eſt ꝙ vnū equevelo-
citer remittat̄ ſicut aliud intēdet̄ ⁊ equecito deueniat vnuȝ
ad nō graduȝ ſicut aliud ad ſūmuȝ: niſi per tantū diſtaret
vnuȝ a nō gradu ſicut aliud a ſummo. igit̄ cōcluſio falſa.
¶ Qꝫ tamē i⁹ ꝯcluſio ſequat̄ ex poſitione arguit̄. Si eniȝ
ſit poſſibile ꝙ ſit mixtum ex duobus elemētis couenientī-
bus ⁊c̄. ſit illud .a. ⁊ ſit gr̄a argumēti ex igne ⁊ aere. ¶ Cō-
tra. caliditas vtriuſqꝫ elementi eſt ſumma et humiditas
aeris eſt aliquāta. ⁊ ſiliter ſiccitas ignis. ğ gradus medius
inter humiditatem ⁊ caliditatē aeris eſt ſupra medium: ⁊
ſilr̄ gradus medius iter caliditatē ignis ⁊ ſuā ſiccitatē eſt

ſupra

ſupra gradu medii. igr̃ iuxta illam põnez tam ignis q̃ etiã aer eſt ſupra gradũ mediũ. ſed oẽ qḋ eſt ſupra gradũ mediũ min⁹ diſtat a ſummo q̃ aliud ſupra mediũ diſtat a nõ gradu vt ↄſtat. igr̃ ſeqr̃ ꝓ. ℂ Silr arg̃ ex qbuſcũqꝫ elemẽtis ↄuenientib⁹ ſit illḋ mixtũ: qꝛ vtriuſqꝫ eliũ vna qũtas eſt ſumma ⁊ aª q̃litas aliq̃ntã: igr̃ inter vtriuſqꝫ eliũ

35m q̃litates gradus medi⁹ eſt ſupra gradũ mediũ tot⁹ latitudinis. igr̃ ſeqr̃ ↄclo. ℂ Cõtra q̃tã ar̃. Sit a. ↄtinue intendet. b. igr̃ eũ m̃q̃ remittet. g̃ ↄclo falſa. Et ꝙ iſta ſequat̃ ꝓbo. Capiat̃ . b. vna terra cuius ſiccitas per plus diſtat a ſummo q̃ fridiitas a nõ gradu: ⁊ ſit. a. vnũ agẽs qḋ remittat fridiitatẽ ad nõ gᵐ vnifor̃ g̃ra argumẽti ⁊ intẽdat eius ſiccitatẽ ad ſummũ in eodẽ tpe in quo remittet̃ fridiitas ad nõ gradũ: tũc ex quo ſiccitas. b. per plus diſtat a ſummo q̃ ſua fridiitas a nõ gradu: ⁊ in eodẽ tpe remittet̃ fridiitas ad nõ gradũ ſicut intẽdet̃ ſiccitas ad ſummũ: ⁊ h vnifor̃. g̃ velocꝰ intẽdet̃ ſiccitas q̃ remittet̃ ſua fridiitas: ⁊ ꝑ ↄñs gradus medi⁹ iter ſiccitatẽ. b. ⁊ ſuã fridiitatẽ ↄtĩ erit intẽſior: ⁊ ꝑ ↄñs iuxta hãc põnez. b. ↄtinue intẽdet̃ per. a. ⁊ remittet̃ ad nõ gradũ: qꝛ in fine. b. nõ habebit fridiitatẽ: ⁊ nõ põt eſſe terra ſine fridiitate. g̃ ſeqr̃ ↄclo.

3am põnez **Contra ſcdam** põnez arg̃ ſic: qꝛ ex iſta ſequũt̃ iſta incõuenientia. Primũ ꝙ aliqḋ eſt intẽſi⁹ q̃ ĩmmet eſt intẽſuz. ℂ Scdm: nõ plus facit q̃litas intẽſior q̃ remiſſior rẽ eiuſdẽ ſubti: ⁊ ex remiſſione vni⁹ q̃litatis ſtãte alia totũ nõ remittit̃. ℂ Tertiũ. a. eſt vnũ vnifor̃ ꝑ totũ cui⁹ vtraqꝫ medietas manẽs ↄtinue vniformis eodẽ gradu remittet̃ ad nõ gᵐ: ⁊ tñ totũ ↄtinue intẽdet̃. ℂ Silr. a. ⁊ b. ſint duo eque intẽſa ꝑcĩſe: ⁊ vtraqꝫ medietas. b. equeuel̃ remittet̃ cũ medietate corrñdẽte in a. manẽte. a. ↄtĩ vniformi: ⁊ tñ totũ. a. ↄtinue erit intenſius ipſo. b. ℂ Quintũ. a. ⁊ b. ſunt duo eque intẽſa ⁊ vniformia ⁊ q̃elꝫ ps ꝓpor̃ˡⁱᵐ. b. ↄtinue eque⁹ remittet̃ cũ pte ꝓporˡⁱ corrñdente in. a. ⁊ ſilis ad oĩa pũcta vtriuſqꝫ erit remiſſio: ⁊ tñ in iñᵐ maiorabit̃ ꝓpor̃ intẽſionis. a. ſupra intenõẽ. b. ℂ Sextũ. q̃elꝫ ps ꝓporˡⁱᵐ. a. eſt in du⁹ remiſſior q̃ pars ꝓporˡⁱᵐ corrñdẽs in. b. ⁊ tñ totũ. a. eſt intẽſius toto. b. q̃cũqꝫ

2a 3 ꝓporˡⁱᵉ maiori da⁹. ℂ Scda ↄclo ſeqr̃ mãifeſte: qꝛ capiat̃ vnũ eliuz: cuius caliditas ſit vt octo: ⁊ ſiccitas g̃ra argumẽti ſit vt q̃tuor: tunc totũ eſt intẽſuz vt q̃tuor iuxta põnez: ⁊ ſi caliditas iª remittit̃ ad q̃tuor, totũ nõ remittit̃ ſi ſiccitas ſtaret. igr̃ per remiſſionẽ caliditatis nõ remittit̃ iḋ eliuz: ⁊ per ↄñs nõ plus facit caliditas ad intẽſionẽ elemẽti q̃ facit iſta

pa 3 ſiccitas. ℂ Prima ↄclo ar̃ ſic. Capiat̃ vnũ eliuz: cui⁹ caliditas ſit vt octo ⁊ ſiccitas ſilr: ⁊ remittat̃ ſiccitas ad q̃tuor ſtante caliditate vt octo. Tũc arguit̃ ↄclo pro fine tpis: quia tunc erit iſtud eliuz ꝙ ſit. a. intẽſum vt q̃tuor: vt ponit poſitio. Et ꝙ tunc erit intẽſuz ſupra q̃tuor arguit̃: nũc ratiõe ſiccitatis ⁊ caliditatis eſt totũ intẽſuz vt octo: ⁊ tantũ cõfert caliditas ſic̃ ſiccitas. igr̃ caliditas cõfert q̃tuor ⁊ ſiccitas quatuor. ſed ſiccitas in fine in duplo min⁹ faciet q̃ nũc: qꝛ tũc erit in duplo remiſſior q̃ nũc eſt ſtante caliditate: igr̃ tũc cõfert vt duo: ⁊ caliditas plus tunc faciet q̃ duo: quia tũc erit iſta caliditas oĩo eque intẽſa ſicut nũc eſt. igr̃ tunc caliditas ⁊ ſiccitas plus faciẽt q̃ quatuor: ⁊ per ↄñs tũc erit iḋ intẽſuz ſupra graduz vt quatuor. igr̃ ſeqr̃ ↄclo. ℂ Pro iſto forte dĩ ꝙ caliditas tunc nõ plus faciet q̃ duo: ſꝫ nunc plus faciat: ⁊ tunc erit eque intenſa ſicut nũc eſt: qꝛ ſꝫ tunc erit eque remiſſa ſicut nũc eſt: tñ erit ↄiuncta cũ ſiccitate remiſſiori q̃ nũc: ⁊ equalis caliditas cũ ſiccitate remiſſiori minus faciet ad intẽſionẽ ignis q̃ cũ ſiccitate intenſiori: ⁊ cõſilr eſt de ſiccitate reſpectu caliditatis. ℂ Cõtra. data iſta riſione adhuc ſeqr̃ ↄclo: qꝛ ſit nũc finis: ⁊ ſequit̃ ꝙ nũc eſt intenſum vt quatuor: ſicut ponit̃ in põne. ⁊ ꝙ ſit intẽſius q̃ quatuor ꝓꝫ: qꝛ remittat̃ caliditas vſqꝫ ad q̃tuor ſtante ſiccitate vt q̃tuor: tũc in fine ⁊ ↄtĩ aĩl erit intẽſuz vt q̃tuor per põnez. ſꝫ nũc eſt intẽſi⁹ q̃ tũc erit. g̃ rc. Minor ar̃ ſic: tũc erit caliditas remiſſior q̃ nũc: ⁊ ſiccitas ꝑcĩſe eq̃lis ſicut eſt nũc. igr̃ ꝑ riſionẽ datã tũc min⁹ faciet ſiccitas ad intẽſionẽ. a. ignis q̃ nũc facit: ⁊ caliditas tunc nõ faciet plus ad tot⁹ intẽſionẽ q̃ nũc facit. g̃ caliditas ⁊ ſiccitas min⁹ faciet q̃ nũc faciãt. ↄña ꝓꝫ ⁊ maior ſilr: qꝛ caliditas tunc erit remiſſior q̃ nũc eſt ↄiuncta cũ ſiccitate eq̃li ſic̃ nũc ↄiūgit̃. igr̃ tũc nõ plus faciet q̃ nũc facit. ⁊ maior ꝓꝫ: eo ꝙ ſiccitas tũc erit ↄiũcta cũ caliditate remiſſiori q̃ nũc. ſeqr̃ ergo ↄclo ex põne ſiue ponat̃ ꝙ eq̃lis caliditas equalr̃ faciet cũ ſiccitate minori ſic̃ cũ maiori vel ꝙ min⁹ faciet: ⁊ ↄclo icludit ↄdictionẽ. g̃ iª ↄclo eſt fĩa. ℂ Cõtra 2ᵃᵐ ↄnez arg̃ ſic. Capiat̃

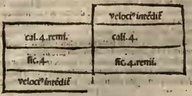
3am ↄnem. iſta caliditas. a. ſic vt octo: tũc iª cõtinet bis q̃tuor: ⁊ ſic tunc vtraqꝫ medietas illi⁹ caliᵗᵃᵗⁱˢ tñtũ ↄfert ſic̃ ſiccitas: qꝛ ſi medietas illi⁹ caliditatis eẽt ablata: nũc tñtũ faceret alia medietas caliditatis ſicut tota ſiccitas. ſꝫ ꝑꝑ aliã medietatẽ illi⁹ caliditatis nõ ĩpedit̃: imo plus ꝓmouet̃. igr̃ tantũ nũc facit vna medietas illi⁹ caliditatis ſicut tota ſiccitas: ⁊ tantũ facit alia medietas eiuſdẽ caliditatis ſicut iª ſiccitas: vel ſaltẽ aliquãtulũ fac̃. igr̃ plus fac̃ tota caliditas tota ſiccitᵃᵗᵉ. igr̃ ↄclo nõ eſt vã. ℂ Contra 3ᵃᵐ ↄnez arguit̃ ſic. Si vtraqꝫ medie

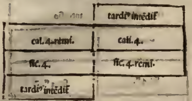
3 3am tas ↄtinue remittet̃ manẽs vniformis: igr̃ ad oẽz punctũ vnius erit eq̃lis remiſſio ſicut ad aliquẽ punctuz alteri⁹: qꝛ ad oẽm punctũ vni⁹ medietatis erit eq̃lis remiſſio ſic̃ ad aliquẽ eiuſdez medietatis: eo ꝙ manebit vniformis: ⁊ ad oẽz punctũ vni⁹ medietatis erit eq̃lis remiſſio ſicut ad aliquẽ alteri⁹: eo ꝙ ad oĩa pũcta vtriuſqꝫ medietatis ↄtĩ erit eq̃lis remiſſio. g̃ ad oẽm punctũ tot⁹ erit eq̃lis remiſſio ſic̃ ad aliquẽ: ⁊ ſi ſic nullicubi erit intenſio. igr̃ nõ ſtat aliquo mõ totũ intẽdi. g̃ ↄclo ẽ impoſſis. Et ꝙ iſta ſequat̃ arguit̃ ſic. Sit. a. vnũ vnifor̃: cui⁹ tã caliditas q̃ ſiccitas ſint vniformes vt q̃tuor: ⁊ remittat̃ caliditas in vna medietate vnĩ ad nõ gradũ ⁊ in alia ei⁹ medietate remittat̃ ſiccitas vnifor̃ ad nõ graduz equeuel̃ ſicut caliditas in pª medietate: ⁊ intẽdat̃ ſiccitas in pma medietate cõtinue velocꝰ q̃ remittat̃ in ſecũda: ⁊ in ſecũda medietate intendat̃ caliditas ↄtinue velocius q̃ remittat̃ in pma: ⁊ maneat vtriuſqꝫ medietatis caliditas continue vniformis ⁊ etiaz ſiccitas: ⁊ ſiccitas prime ptis ↄtinue eque⁹ intẽdat̃ ſicut caliditas 2ᵉ.

remittitur	intenſio
cal. 4ᵒʳ.	cal. 4ᵒʳ.
ſic. 4ᵒʳ.	ſic. 4ᵒʳ.
intenſio	remittit̃

Tunc ꝙ. a. ſit vniforme ꝓꝫ. ⁊ ꝙ vtraqꝫ medietas remittet̃ vnifor̃ ad nõ gᵐ ⁊ manebit vniforᵐ. ꝓbat̃: qꝛ pª medietatis caliditas remittet̃ vnĩ ad nõ gᵐ ⁊ manebit vniformis: eo ꝙ ſua caliditas ↄtĩ erit vniforᵐ: ⁊ q̃lꝫ ps illius medietatis erit eq̃ intẽſa cũ ſua caliditate ꝑ põnẽ. igr̃ iª medietas manẽs ↄtinue vniformis vnifor̃ remittet̃ ad nõ gᵐ: ⁊ ↄſilr arg̃ de alia medietate. Et ꝙ ille medietates ↄtĩ erũt eq̃ intẽſe eodem gradu, ꝓꝫ: qꝛ nũc ſũt vniformes eodẽ gradu: ⁊ ↄtĩ equeuel̃ remittent̃: quia vna equeuel̃ remittet̃ cum ſua ſiccitate ⁊ alia equeuel̃ cum ſua caliditate: que caliditas ⁊ ſiccitas cõ

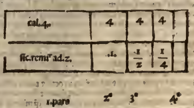
tinue equeuelˀ remittent ut ponit̃ in caſu. igit̃ pꝫ ɔcluſio: preter ultimã particulaꝫ que ſic arguit̃: quia due ſũt poſitiões in de difformib⁹. ſ. ꝙ uel qualitas corrñdet gradui medio uel eſt eque intenſa ſicut aliqua pars eiuſdẽ. ſi gradui medio: tunc ex quo uelocius intendet̃ caliditas in una medietate ꝙ̃ remittet̃ in alia: ſequit̃ ꝙ gradus medius inter caliditatẽ unius medietatis ⁊ caliditatẽ alteri⁹ medietatis ɔtinue erit intenſior ⁊ intẽſior: ⁊ ſi ſic caliditas ɔtinue intendet̃. Conſimilr̃ arguit̃ de ſiccitate ꝙ iꝰ ɔtinue intẽdat̃: tunc ſi caliditas ɔtinue intendit̃ ⁊ etiaꝫ ſiccitas: ſequit̃ ꝙ illud elementũ intendet̃. ergo ponẽdo qualitatẽ difformẽ: cuius utraqꝫ medietas eſt uniformis correſpondere gradui medio: ſequit̃ totũ ɔtinue intendi. ſi etiaꝫ ponat̃ qualitatem eſſe intenſam ſicut aliqua pars eiuſdẽ ſequit̃ caliditatẽ. a. ɔtinue intẽdi: quia ɔtinue pꝫ intẽſiſſima caliditatis. a. ĩtẽdet̃. ⁊ ɔſilr̃ eſt de ſiccitate. igit̃ pꝫ ꝙ totũ. a. ɔtinue intẽ
34^{m} det̃. ergo ſeq̃t̃ ɔcluſio. ¶ Cõtra 4^{m} ſic arg̃. Si. a. ⁊. b. ſunt duo uniformia eq̃ intẽſa ⁊ equeueˀ remittant̃ eoꝝ medietates manẽtes eodeꝫ gradu uniformes. igit̃ ad oẽꝫ punctũ uni⁹ equeueˀ erit remiſſio ſicut ad punctũ corrñdentẽ alteri⁹. igit̃ ſi nũc ſunt eque intẽſa: ſeq̃t̃ ꝙ ɔtĩ manebũt eque intẽſa: ⁊ per ɔñs neutrũ erit alio intẽſi⁹. ergo ɔcluſio nõ erit uera. ¶ Contra pᵃ ɔcluſio ſequat̃ ex põne arguitur ſic. Ponatur ꝙ. a. ⁊. b. ſint duo uniformia: ita ꝙ caliditas utriuſqꝫ ſit ut q̃tuor: ⁊ etiã ſiccitas: ut ponit̃ in caſu ꝑ prio de. a. ⁊. c. ⁊ ponat̃ ꝙ in pᵃ medietate. b. remittat̃ caliditas ſicut in pᵃ medietate. a. ⁊ in 2ᵃ medietate. b. remittat̃ ſiccitas ſicut in ſcḋa medietate. a. tamen intendat̃ ſiccitas in prima medietate. b. tardius ꝙ̃ ſua caliditas remittitur: ⁊ intenditur caliditas in alia medietate tardius ꝙ̃ ſua ſiccitas remittitur.



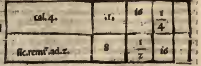


Tunc in una medietate. b. uelocius remittit̃ caliditas ꝙ̃ in alia medietate intẽdet̃. ergo ſi gradus medi⁹ inter caliditatem uni⁹ medietatis ⁊ caliditatẽ alteri⁹ medietatis ɔtinue erit remiſſior ⁊ remiſſior. ergo tota caliditas. b. corrñdebit gradui remiſſiori ⁊ remiſſiori. ⁊ ſic arᵣ de ſiccitate. ergo tam ſiccitas. b. ignis ꝙ̃ ſua caliditas ɔtĩ corrñdebit gradui remiſſiori ⁊ remiſſiori: ⁊ ſic. b. ɔtĩ erit remiſſius ⁊ remiſſi⁹: ⁊. a. ɔtinue erit intẽſius ⁊ intẽſius. ergo cũ. a. b. nũc ſũt eque intẽſa ſeq̃t̃ ꝙ ɔtinue. a. erit intẽſius. b. Si tñ ponat̃ ꝙ q̃litas ſit eq̃ intẽſa ſicut aliq̃ pꝫ eiuſdẽ: ⁊ tũc ideꝫ ſeq̃t̃ eo ꝙ caliditas. a. ɔtĩ erit intẽſior caliditate. b. quia maxima caliditas. a. ɔtinue ueloci⁹ intẽdet̃ maxima caliditate. b. ut pꝫ per caſuꝫ: ⁊ ɔſilr̃ eſt de ſiccitate. igit̃ tã caliditas. a. ꝙ̃ ſua ſiccitas ɔtinue erit maior caliditate ⁊ ſiccitate. b. ⁊ per ɔñs caliditas ⁊ ſiccitas. a. ɔtĩ erit maior caliditate ⁊ ſiccitate. b. ⁊ per ɔñs. a. erit ɔtinue intenſius. b. quod fuit ꝓbãduꝫ. ¶ Cõtra quartã ɔneꝫ arguit̃ ipſam 35^{m}
improbãdo. Si. n. queliꝫ pars ꝓportiõalis. a. ꝑ totũ equeueˀ remittet̃ cũ pte ꝓportionali corrñdente. b. igit̃ ad oĩa puncta corrñdentia ɔtinue erit eq̃lis remiſſio: ⁊ ꝑ ɔñs neutrũ alio ueloci⁹ remittet̃. ɔña arguit̃. quia uel. a. ꝑ totũ uno gradu remittet̃ uel latitudine. Si gradu uno. ergo ſi queliꝫ pꝫ. b. equeueˀ remittat̃ cũ pte ꝓportionali corrñdente. a. ſequit̃ ꝙ. b. remittet̃ eodeꝫ gradu uniformiter per totuꝫ. ⁊ ꝑ ɔñs neutrũ alio uelocius remittet̃. Si aũt. a. remittat̃ mediante latitudine alterationis: ⁊ ad oẽm punctũ. b. eſt equalis remiſſio ſicut ad punctũ corrñdentẽ. a. ergo ɔſilr̃ extẽdetur illa latitudo alterationis in. b. ſicut in. a. ⁊ per ɔñs eidẽ gradui corrñdebit alteratio in. b. ſicut in. a. ſeq̃t̃ ergo ꝙ equeueˀ ꝑciſe remittat̃ unũ ſicut reliquũ: ⁊ per ɔñs nõ maiorabit̃ ꝓportio intẽſionis. a. ſupra intẽſioneꝫ. b. nec minorabitur. ergo ɔcluſio eſt impoſſibilis. Et ꝙ iſta ſequat̃ ex põne arguitur ſic. Poſito ꝙ. a. ⁊. b. ſunt duo uniformia: ita ꝙ gratia argumenti ſit caliditas utriuſqꝫ ut q̃tuor: ⁊ etiã ſiccitas: ⁊ diuidat̃ utrũqꝫ in ptes ꝓportionales. Et pono ꝙ in pᵃ pte ꝓportionali. b. remittat̃ ſiccitas ad unitatẽ uel ad duo: ⁊ in ſcḋa parte ꝓportionali. b. remittat̃ ſiccitas ad gradũ in duplo remiſſiorẽ ꝙ̃ remittet̃ ſiccitas prime ptis ꝓportionalis: ⁊ in 3ᵃ pte ꝓportionali. b. remittat̃ ſiccitas ad graduꝫ in duplo remiſſiorẽ ꝙ̃ remittet̃ ſiccitas ſcḋe ptis ꝓportionalis: ⁊ ſic in infinitũ: ⁊ ſtet in oĩ parte. b. caliditas uel remittat̃: uel ſi intendat̃: intẽdatur tardius ꝙ̃ ſiccitas remittet̃: uel equeueˀ: ⁊ duret ad oẽm punctũ ei⁹ remiſſio per horaꝫ. Et pono ꝙ in omni pte ꝓportionali. a. pari remittat̃ caliditas equeueˀ ſicut remittit̃ ſiccitas in pte proportionali corrñdente. b. ⁊ in oĩ pte impari. a. equeueˀ remittat̃ ſiccitas ſicut in parte ꝓportionali correſpõdente. b. remittetur ſiccitas ita. ſ. ꝙ in omni parte ꝓportionali. a. pari in fine erit equalis caliditas ſicut erit ſiccitas in parte ꝓportionali. b. correſpondente: ⁊ in omni parte impari. a. ſit equalis ſiccitas ſicut erit in parte corrñdente. b. Et ponat̃ ꝙ ꝓportionalr̃ ſicut in aliqua parte ꝓportionali. a. fiat caliditas remiſſior: ita fiat ſiccitas maior: ⁊ ſicut in aliqua pte ꝓportiõali fiat ſiccitas remiſſior: ita ꝓportionalr̃ fiat caliditas intenſior.

B



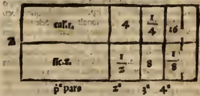
A



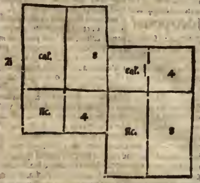
Quo poſito ſequit̃ ɔcluſio. Ex eniꝫ. a. ⁊. b. ſũt duo uniformia eque intenſa ut ponit̃ in caſu: ⁊ ꝙ queliꝫ pars proportionalis. a. equeueˀ preciſe remittat̃ ſicut pars ꝓportionalis. b. corrñdẽs: pꝫ quia qualitas remiſſior cuiuſlibet partis ꝑ

portionalis.a.erit cōtinue eque intenſa ſicut q̄litas remiſ ſior partis ꝓportionalis corriſdentis in.b. ⁊ quelꝫ pars.a. ⁊ etiā.b.erit eque intenſa cuꝫ qualitate remiſſiori eiſdem iuxta pōneꝫ.ǵ ſequit̃ ꝙ quelꝫ pars ꝓportionalis.a.erit cō tinue ꝑciſe eque intenſa cū pte ꝓportionali corriſdente.b. ⁊ per ꝯñs equeuᵗ remittet̃ quelꝫ pars ꝓportiōalis.b.ſicut pars corriſdens.a.⁊ ſilr ad oīa puncta vtriuſqꝫ erit remiſ ſio. ponit̃.n.ꝙ per totā horaꝫ ad oīa puncta vtriuſqꝫ fiat remiſſio.Et ꝙ in infinitū maiorabit̃ ꝓportio intēſionis.a. ſupra intenſionē.b.pꝫ:q2 erit.a.infinite intenſuꝫ: ⁊.b.ſoluꝫ finite intenſum:q2 caliditas.b.erit ſolum finita:⁊ etiaꝫ ſua ſiccitas ⁊ caliditas.a.erit infinita.⁊ etiā ſua ſiccitas:q2 cali ditas in prima pte ꝓportionali.a. erit aliqualr intēſa ⁊ in 3ª in quadruplo intēſior:⁊ ſic in infiᵐ de oibus partibꝰ ipa ribus.Nāꝫ ſiccitas in ꝑma pte ꝓportionali.b. erit in qua druplo intenſior q̄ ſiccitas in 3ª pte ꝓportionali eiuſdem b.vt ponit caſus:⁊ in omni parte ꝓportionali.a. ipari erit ſiccitas eq̄lis ſicut erit ſiccitas in ꝓportionali pte.b.corri dente.igitur in quadruplo remiſſior in fine erit ſiccitas 3ᵉ ptis ꝓportionalis.a.q̄ ꝑme: ⁊ ſicut ſiccitas erit remiſſior ita caliditas erit maior.igit̃ in quadruplo intēſior erit cali ditas 3ᵉ ptis ꝓporˡⁱˢ.a. q̄ ꝑme: ⁊ ſic de alijs ptibꝰ paribꝰ eſt arguēduꝫ ſicut de ptibꝰ iparibꝰ arguebat̃.Et ꝯſilr arᵣ d̄ ſiccitate:q2 in ſcda ꝓportionali.a. erit aliqua ſiccitas: ⁊ in q̄druplo itēſior erit in 4ª pte ⁊ ſic d̄ alijs ptibꝰ eſt arguē dum vt prius de alijs ptibꝰ imparibꝰ eſt argiᵐ. ergo tota ſiccitas.a.ifinito gradui correſdebit:⁊ ēt ſua caliditas.igit̃ ifi nite intēſuꝫ erit.a.in fine.⁊.b.ſoluꝫ finite intēſuꝫ:ſed q2 ſic citas ſua ⁊ ēt eiuſdē caliditas erit ſolū finite intenſa ꝑ ꝯñs in infiᵐ maiorabit̃ ꝓporᵒ itenᵒⁿⁱˢ.a.ad intenᵒⁿᵉᵐ.b.ǵ ꝯclo ſeqt̃.

36ᵐ ❡ Cōtra ſeptā ꝯneꝫ arᵣ ſic.vel eſt.a.vniforᵉ vel difforme. Si vniforᵉ ⁊ quelꝫ ps ꝓporˡⁱˢ.b.eſt in duᵒ intēſior q̄ pars ꝓporˡⁱˢ.a.corriſdens.igit̃.b.eſt vniforᵉ ǵdu duᵒ ad gradū quo eſt.a.vniforᵉ:⁊ ꝑ ꝯñs.a.nō eſt intēſiᵘ.b.Si ēt.a.ſit diſ forᵉ:⁊ q̄lꝫ ps ꝓporˡⁱˢ.b.eſt in duᵒ intēſior q̄ pars ꝓporˡⁱˢ.a. corriſdens.igit̃ itenᵒ.b.difformis corriſdet gradui itēſiori q̄ intēſio.a.⁊ ꝑ ꝯñs.a.nō eſt intēſius.b. ǵ ꝯclo icludit ꝯdi ctionē.Et ꝙ iᵃ ſequat̃ arᵣ ſic.ponat̃ de.b.vt ponit̃ in caſu ꝑcedēte:ita ꝙ.b.ſit ita diſpoſitū ſicut erit in fine remiſſio nis in caſu ꝑmo dato ⁊ ſit caliditas ꝑme ptis ꝓporˡⁱˢ.a.in duᵒ remiſſior q̄ ſiccitas ꝑme ptis ꝓporˡⁱˢ.b. ⁊ in 3ª pte ꝓ portionali.a.ſit in duᵒ remiſſior caliditas q̄ eſt ſiccitas in 3ª pte ꝓporˡⁱ.b.⁊ ſic de alijs ptibus iparibꝰ:⁊ ſit ſiccitas ſcde ptis.a.in duᵒ remiſſior q̄ ſiccitas ſcde ptis ꝓporˡⁱˢ.b.⁊ ſic de oībꝰ ptibꝰ paribꝰ:ita ꝙ in oī pte ꝓporˡⁱ.a.ipari ſit cali ditas in duᵒ remiſſior q̄ eſt ſiccitas in pte corriſdente.b.⁊ in oī parte ꝓporˡⁱ.a.pari ſit ſiccitas in duᵒ remiſſior q̄ eſt ſiccitas in parte correſpōdente.b.⁊ ſic ſiccitas in 3ª parte ꝓportionali.a.in quadruplo intēſior q̄ in prima: ⁊ ſic de alijs ptibus imparibꝰ. ⁊ ſic caliditas quarte ptis ꝓporˡⁱˢ.a. in q̄druplo intenſior q̄ caliditas 2ᵉ: ⁊ ſic alijs ptibꝰ paribꝰ.



Tunc cuiuſlibꝫ partis ꝓportionalis.a. eſt qualitas remiſ ſior in duplo remiſſior q̄ qualitas remiſſior in parte cor reſpondente.b.vt ponit caſus, ⁊ iuxta poſitionē omne ele mentuꝫ eſt eque intenſuꝫ cū ſua remiſſiori qualitate. igit̃ pꝫ ꝑma particula ꝯᵉ ⁊ vltima ſimilr ꝙ.a.eſt infinite intē ſum.⁊.b.ſoluꝫ finite intenſuꝫ. Caliditas enīꝫ.a.eſt infinita vt arguitū eſt prius:⁊ etiaꝫ ſua ſiccitas. igit̃ ſequit̃ ꝙ.a.eſt infinite intenſum:⁊.b.ſolum finite intenſum. ergo infinita eſt ꝓportio intenſionis.a.ad intenſionem.b.qḋ fuit ꝓban dum. ❡ Similr data iſta poſitione ſequit̃ ꝙ aliqḋ eſt diſ forme:cuius vtraqꝫ medietas eſt vniformis ⁊ eque inten ſa cum aᵃ. 7ᵃ ʒ ❡ Similr aliquod eſt tale cuius vtraqꝫ medie tas eſt vniformis ⁊ eque intenſa cum aᵃ: ⁊ tamē totum eſt intenſius q̄ aliqua eius medietas. 8ᵃ ʒ ❡ Contra primā ſic ar guit̃.Si vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cū aᵃ:ſequit̃ ꝙ ad omneꝫ punctū eſt equalis intēſio.ergo nul licubi eſt difformitas:⁊ per cōſequēs ſubiectuꝫ nō eſt diſ forme. 37ᵐ ❡ Similr arguit̃ contra proximā.Si enīꝫ vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum alia vndiqꝫ eſt equalis intenſio.ergo nulla pars eſt alia intenſior nᵉ to tum aliqua parte intenſius.Tamē ꝙ iſta cōcluſio ſequat̃ arguit̃ ſic.ponatur ꝙ in vna medietate.a. ſit caliditas vt octo:⁊ in alia medietate ſit caliditas vt quatuor: ⁊ in me dietate vbi eſt caliditas vt octo ſit ſiccitas vt quatuor:⁊ in alia medietate vbi eſt caliditas vt q̄tuor ſit ſiccitas vt octo. 38ᵐ



Tunc vtraqꝫ medietas.a.eſt vniformis ⁊ eque intenſa cū alia:quia prime medietatis.a. caliditas eſt vniformis vt octo:⁊ ſiccitas vt quatuor. ergo iuxta illam poſitionem iᵃ medietas eſt vniformis vt quatuor. Similiter alteriꝰ me dietatis.a.eſt caliditas vt quatuor vniformis ⁊ ſiccitas vt octo.igit̃ per poſitionē illam iᵃ medietas eſt vniformis vt quatuor: ⁊ ſic ſequit̃ ꝙ vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum alia.Et ꝙ totum ſit difforme arguit̃ ſic. Una pars eius eſt alia parte intenſior. igit̃ totum eſt diſ forme.conſequētia pꝫ ⁊ antecedens ꝓbo ſic. Capio duas quartas medias ⁊ partem compoſitam ex his:ita ꝙ pun ctus medius totius ſit punctus medius illius partis: tunc iᵃ pars correſpondet gradui intenſiori q̄ eſt gradus vt quatuor.nam ſiccitas eſt intenſior q̄ quatuor. ⁊ etiam ca liditas: quia ſiccitas in vna medietate illius partis eſt vt viij. ⁊ in alia medietate vt quatuor: vt patet per caſum. ergo tota caliditas iſta correſpondet gradui intenſiori q̄ eſt gradus vt quatuor: quia ſm̄ vnam poſitionē qualitas bruoi difformis correſpondet gradui medio: ⁊ ſm̄ aliam gradui intēſiſſimo. ❡ Conſilr arᵣ de ſiccitate.ǵ vtraqꝫ q̄li tas illiᵘ ptis corriſdet gradui intēſiori q̄ eſt gradus vt.iiij. ⁊ ſi ſic iſta ps corriſdet gradui intēſiori q̄ eſt.iiij.⁊ aᵃ pars corriſdet gradui vt.iiij.vt arguitū eſt. igit̃ ſequit̃ cōcluſio.

¶ Octaua ꝯclo argᵉ ꝯſilr: qꝛ vtraqʒ medietas eſt vnifor- mis ⁊ eq̄ intēſa cū alia vt argutū eſt: ⁊ totū eſt intēſiᵘ q̄ ali- qua medietas eiuſdē: qꝛ tota calitas correſꝑdet gradui in- tenſioꝛ q̄ eſt .iiij. vt preᵘ argutū eſt de iſta pte cōpoſita ex duabᵘ q̄rtis itermedijs: ⁊ ſic eſt de ſiccitate. ḡ ſequit̄ ꝯclo.

9a ꝯ ¶ Itē data iᵃ pōne, ſeqt̄ ꝙ .a. eſt tale cuiᵘ pᵃ ps ꝓporlis eſt aliq̄lr intenſa: ⁊ 2ᵃ in duᵒ remiſſioꝛ: ⁊ 3ᵃ in q̄drupio remiſ- ſioꝛ: ⁊ ſic in ifim: ⁊ tn̄ totū .a. eſt īfinite intēſum. Oꝫ iſta ꝯclo ſic ipoſis argut̄ ſic: qꝛ ſi .a. ꝑ totū eēt eq̄ intēſuʒ ſic eſt pma ps ꝓporlis: tūc .a. foret ſoluʒ finite intēſuʒ: qꝛ eque intēſuʒ cū pᵃ pte ꝓporli. ſed nūc quelʒ ps ꝓporlis illiᵘ eſt remiſſioꝛ q̄ tūc eēt. ḡ .a. nūc nō eſt īfinite intēſuʒ. Et ꝙ ꝯclo ſequat̄ ex pōne iᵃ arᵗ ſic: ⁊ pōnat̄ ꝙ .a. ſic diſpoſitū ſic poᵗ ꝙ .a. erit in fine caſu poſito ad ꝯnem gnēī ꝓbatā: tūc vt ibi argut̄ nunc eſt pᵉ ptis ꝓporlis ſiccitas aliquāta: ⁊ 2ᵉ ptis ꝓporlis calitas in duplo remiſſioꝛ q̄ ſiccitas pᵉ ptis ꝓporlis: ⁊ ſic- citas 3ᵉ ptis ꝓporlis in duᵒ remiſſioꝛ q̄ calitas 2ᵉ ptis ꝓpo- tionalis ⁊ ſic deinceps: ⁊ cuiuſlibʒ ptis iparis erit ſiccitas qualitas eius remiſſioꝛ: ⁊ cuiuſlʒ ptis iparis caliditas erit q̄litas eius remiſſioꝛ. ḡ oīs ps ipar eſt eque intēſa cuʒ ſua ſiccitate: ⁊ ois ps par eſt eque intēſa cuʒ ſua calitate: ⁊ per ꝯñs pma ps ꝓporlis eſt aliq̄lr intēſa: ⁊ 2ᵃ in duplo remiſ- ſioꝛ: ⁊ ſic in ifim. Et ꝙ totū ſit ifiᵗᵉ intēſuʒ arᵗ ſic ibi argue- bat̄: eo ꝙ calitas tota eſt ifinita ⁊ ēt ſiccitas. igit̄ ſeqt̄ ꝯ.

33m pōnē Nō redu- cit ſcdm ꝯ̄ nemo qꝛ fortaſſe vnᵐ acci- pit qd ab hac pōne negaretur ſ. ꝙ n̄ plus faciat q̄li- tas inten- ſior q̄ re- miſſio ⁊c.

Ideo ponat̄ 3ᵃ pō ꝯ quā ſic argūit̄ ex iſta ſequūt̄ ꝯnes reducte ꝯ precedentē pōnem.

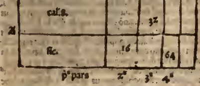
Prima .n. vʒ ſequi: qꝛ ponat̄ caſus poſitᵘ pro pma ꝯne in pōne ꝑria: ⁊ argūit̄ ꝙ tūc correſꝑdebit gradui vt .vi. vt ibi arguit: ⁊ ꝙ tunc correſꝑdebit gradui remiſſiori q̄ .vi. vt po- nit iſta poſitio: qꝛ correſꝑdebit gradui medio ꝓportionali inter octo ⁊ q̄tuoꝛ qui eſt gradus remiſſioꝛ q̄ ſex: vt ꝯſtat.

¶ Contra oēs ꝯnes argūit̄ vt prius: ēt argūit̄ ꝙ 3ᵃ ꝯcluſio ſequit̄ ex illa pōne. Sit eniʒ .a. vniforme cuiᵘ tam calitas q̄ ſiccitas ſit vniformis vt q̄tuoꝛ ⁊ remittat̄ calitas viiᵘ medietatis ad nō graduʒ: ⁊ ſiccitas eiuſdeʒ medietatis in- tendat̄ velociᵘ q̄ calitas remittit̄: ſic tn̄ ꝙ gradus mediᵘ

3a ꝯ ꝓportionalis inter calitatē ⁊ ſiccitatē ꝯtinue remittat̄ qd eſt ſatis poſſe: qꝛ velocius ꝓporᵗ pōt caliditas remitti q̄ ſiccitas intēdi: dūtamē tardius ſimplr remittit̄ q̄ ſiccitas intēdatur: eo ꝙ cōtinue caliditas erit minoꝛ ſua ſiccitate. Ponat̄ tn̄ ꝙ in alia medietate .a. remittat̄ ſiccitas ſicut ca liditas in pma: ⁊ intēdat̄ caliditas in ſcda medietate ſicut ſiccitas in pma. Tunc ꝙ vtraqʒ medietas remittet̄ ad nō gradum pʒ: qꝛ in vtraqʒ medietate gradus medius ꝓpor tionalis inter caliditatē ⁊ ſiccitatē remittet̄ ad nō gradus vt ponit caſus ⁊ tota medietas cōtinue erit eque intēſa cū medio gradu ꝓportionali inter illas q̄litates. igit̄ vtraqʒ medietas .a. cōtinue remittit̄ ⁊ hoc eodē gradu. Et ꝙ totū .a. cōtinue intēdet̄ pʒ: qꝛ velocius ꝯtinue intēdet̄ caliditas in vna medietate q̄ remittet̄ in alia: qꝛ equeueᵗ remittet̄ caliditas in pma medietate ſicut ſiccitas in ſcda: ſʒ velociᵘ intēdet̄ caliditas in ſcda medietate q̄ ſiccitas eiᵘ in eadeʒ remittet̄. ḡ velociᵘ intēdet̄ calitas in vna medietate q̄ in alia medietate remittet̄. ergo tota caliditas ꝯtinue correſ- debit gradui intēſiori ⁊ intēſiori: ⁊ ꝯſilr argūit̄ de ſiccita- te. ḡ vtraqʒ qualitas ꝯtinue intēdet̄: ⁊ per ꝯñs gradus me dius ꝓportionalis inter illas q̄litates eiuſdē ſpēi cōtinue

4a ꝯ intēdet̄: ⁊ ſi ſic totū .a. intendet̄. ¶ Pro 4ᵃ ꝯne argūit̄ ſic. Ponat̄ de .a. vt nūc poſitū eſt: ⁊ ponat̄ ꝙ .b. ſit oio ꝯſile .a. ⁊ ꝙ in pma medietate eius velocius remittat̄ caliditas q̄ in prima medietate .a. ⁊ in ſcda medietate cōſilr remitta- tur ſiccitas ſicut in pᵃ calitas: ⁊ ſtet in pᵃ medietate .b. ſicci- tas: ⁊ in ſcda calitas: ita ꝙ gradus mediᵘ ꝓporlis iter cali- tatē ⁊ ſiccitatē medietatū .b. ſit eq̄lis gradui medio ꝓporlis inter calitate ⁊ ſiccitatē medietatū .a. vt eſt ſatis poſſe. Tūc ꝙ vtraqʒ medietas .a. ꝯtinue erit eque intēſa cū medieta- te correſpōdente .b. pʒ per poſitionem. Et ꝙ .a. ꝯtinue erit intenſius .b. pʒ: qꝛ caliditas .a. cōtinue erit intēſioꝛ q̄ nunc eſt vt ꝓbatū eſt: ⁊ caliditas .b. nō erit intenſioꝛ q̄ nūc eſt: eo ꝙ in vna medietate remittet̄ caliditas ⁊ ſtabit in alia: ⁊ cōſimilr eſt de ſiccitate .a. eo ꝙ ipſa intendet̄ ⁊ nō ſicci- tas .b. Cum igit̄ caliditas .a. nūc ſit equalis caliditati .b. ſe- quit̄ ꝙ caliditas .a. ꝯtinue erit intēſioꝛ q̄ caliditas .b. ⁊ ſic etiā argūit̄ de ſiccitate. ergo pʒ ꝙ totū .a. cōtinue erit intē ſius q̄ totū .b. ḡ ſequit̄ ꝯcluſio. ¶ Oꝫ qnta cōcluſio ſequat̄ 5a ꝯ

argūit̄ ſic. Et ponat̄ de .b. vt ponit̄ in ꝓbatione eiuſdeʒ cō cluſionis in pōne ꝑma: ⁊ ſit .a. ꝯſilr diſpoſitū oino cū .b. diuiſum in ptes ꝓportionales: ⁊ intēdat̄ caliditas in pma parte ꝓportionali .a. ita ꝙ in fine erit in duᵒ intenſioꝛ q̄ nunc eſt: ⁊ intēdatur ſiccitas in ſecūda parte ꝓportionali: ita ꝙ in fine erit in duplo intenſioꝛ q̄ caliditas prime: ⁊ intendatur caliditas tertie partis ſic ꝙ in fine erit in du- plo intenſioꝛ q̄ ſiccitas ſcde: ⁊ in iſta 4ᵃ pte ꝓportionali intendat̄ ſiccitas ad gradum dupluʒ ad graduʒ ad quem intendit̄ caliditas 3ᵉ: ⁊ ſic in infinituʒ: ita ꝙ in omni parte impari intendat̄ caliditas: ⁊ ſicut aliqua iſtaʒ partiuʒ eſt minoꝛ pmarita ad gradum intenſiorē intendat̄ caliditas in illa parte q̄ in pma: ⁊ in omni pari intendat̄ ſiccitas ad gradum dupluʒ ad illum gradum ad quē intendit̄ calidi- tas in parte imediate precedēte: ⁊ ponat̄ ꝙ in omni parte ꝓportionali in qua intendet̄ caliditas remittat̄ ſiccitas: ⁊ in omni parte ꝓportionali in qua intendet̄ ſiccitas remit- tatur caliditas: ita ꝙ gradus medius ꝓportionalis in oī parte ꝓportionali .a. cōtinue ſit eque intenſus cum gradu medio inter caliditatē ⁊ ſiccitateʒ in parte correſpōdente .b. ſicut ſatis ꝯſtat eē poſſe: eo ꝙ q̄ntūcūqʒ intēdat̄ vna q̄li- tas elemēti tn̄ pōt alia remitti: ⁊ quātūcūqʒ remiſſioꝛ vo- lueris ſit gradus medius ꝓportionalis iter illas q̄litates.



Tunc ꝙ .a. ⁊ .b. ſunt duo eque intenſa pʒ per caſuʒ: ⁊ quelʒ pars ꝓportionalis .a. equeueᵗ remittet̄ cū parte ꝓportio- nali correſpōdente .b. qꝛ quelibʒ ps ꝓportionalis .a. eque- velociter remittet̄ cuʒ gradu medio ꝓportionali inter ca- liditateʒ ⁊ ſiccitatē iuxta poſitionē: ſed gradus medius ꝓ- portionalis inter caliditatē ⁊ ſiccitatē equeueᵗ remittetur in omni pte ꝓportionali .a. ſicut remittet̄ gradus medius ꝓportionalis in parte ꝓportiōali .b. correſpōdente vt po nit̄ in caſu. ergo quelibʒ pars ꝓportionalis .a. equeveloci- ter remittet̄ cum parte ꝓportionali correſpōdente .b. Et ꝙ in infinitū maioꝛabit̄ ꝓportio intēſionis .a. ſupra inten ſionem .b. argūit̄: qꝛ in fine erit .a. infinite intenſum: ⁊ .b. ab- ſolutum finite intenſuʒ: qd ſic argūit̄. In fine erit calitas pme partis ꝓportionalis .a. aliquāta ⁊ in 3ᵃ in quadruplo inten ſioꝛ: ⁊ ſic deinceps vt ponit̄ in caſu. ergo tota caliditas in fine erit infinite intenſa: ⁊ cōſimilr argūit̄ de ſiccitate: qꝛ in prima parte pari erit ſiccitas aliquāta: ⁊ in ſcda parte pari in quadruplo intēſioꝛ: ⁊ ſic in ifinitū vt ponit̄ in caſu. ergo tam caliditas .a. q̄ ſua ſiccitas in fine erit infinite in- tenſa: ⁊ ſic ſequit̄ ꝙ totum .a. erit infinite intenſuʒ in fine: ⁊ .b. ſolum finite intenſum: eo ꝙ ſiccitas eſt finita ⁊ etiam

ſua caliditas vt patet in caſu. igitur in infinitum maiora-
bitur proportio intenſionis.a.ſupra intenſionem.b. quod
6 ʒ. fuit pbādū.ergo ſeqꝛ ꝯclō. ¶ De ēt ſexta ꝯclō ſequaꝛ ex
pōne arᵉ ſic. ponat dc.b.vt in caſu pcedēte:ita ꝙ.b.ſit diſ-
poſitū vt in caſu pcedēte in fine totꝰ remiſſionis:ꝛ ponaꝛ
ꝙ in oī pte pportionali.a.ipari ſit tāta calitas ſicut erit in
fine tpis in caſu ppio: ꝛ ꝯſilr ēt ſit de ſiccitate in ptibꝰ pa-
ribꝰ vt poſitū eſt pro fine tpis in caſu ppio:ſit tñ in oī pte
ipari ita remiſſa ſiccitas ꝛ in oī pte pari ita remiſſa cali-
ditas ꝙ in oī pte pportionali.a.ſit gradus medius ppor-
tionalis iter calitatē ꝛ ſiccitatē in duplo remiſſioꝛ ꝙ̃ gra-
dus mediꝰ pportionalis inter ſiccitatē ꝛ calitatē in pte p-
portiōali corriſpōdēte.b.ſm ꝙ eſt ſatis poſe: eo ꝙ q̃ntacūqꝫ
ſit magna caliditas ita remiſſa pōt ee ſiccitas ꝙ quocūqꝫ
gradu dato pōt gradus mediꝰ pportiōalis iter calitatē ꝛ
ſiccitatē eē remiſſioꝛ vt ꝯſtat intuēti: qꝛ data aliq̃ calitate
ꝛ ſiccitate aᵉ remiſſiori iter iſtas eſt gradus mediꝰ ppor-
tiōalis aliq̃lr intēſus:ꝛ iter eandē calitatē ꝛ aliā ſiccitatē
eſt gradus mediꝰ pportiōalis in duꝰ remiſſioꝛ: ꝛ ſic in ifiᵐ.
vt notū eſt. Jō iſto caſu poſito ſeqꝛ ꝯ.naꝫ ꝙ q̃lꝫ ps ppor-
tionalis.a.ſit in duplo remiſſioꝛ ꝙ̃ ps pportionalis.b.ſibi
corriſpōdēs,pꝫ:eo ꝙ gradus mediꝰ pportiōalis iter calitatē
cuiuſlibꝫ ptis pportiōalis.a.ꝛ ſuam ſiccitatē eſt in duꝰ re-
miſſioꝛ ꝙ̃ eſt gradus mediꝰ pportiōalis iter calitatē ꝛ ſic-
citatē.ptis pporˡᵉ corriſpōdētis.b. ꝛ q̃lꝫ ps pporˡᵉ.a. eſt eq̃
intēſa cū gᵒ meᵒ pporˡⁱ iter calᵗᵉᵐ ſuā ꝛ ſuā ſiccᵗᵉᵐ: ꝛ q̃lꝫ ps
pporˡᵉ.b.eſt eq̃ intēſa cū gᵒ meᵒ pporˡⁱ iter ſuā ſicᵗᵉᵐ ꝛ cali-
ditatē ſuā p pōnē. ꝫ q̃lꝫ ps pporˡᵉ.a. eſt in duꝰ remiſſioꝛ
ꝙ̃ ps ſibi corriſpōdens in.b. Et ꝙ q̃cūqꝫ pporᵉ data pporᵉ
maiori ſit.a.itēſiꝰ.b.pꝫ:qꝛ.a.eſt ifiᵗᵉ itenᵐ:eo ꝙ ſua calitas
eſt ifiᵗᵃ ꝛ ēt ſiccitas:vt pꝫ arguᵐ eſt in ꝯne ppia:ꝛ.b.eſt ſolū
finite intēſuꝫ:eo ꝙ tā calitas eſt finita ꝙ̃ ēt ſiccitas vt pꝫ.
ꝫ ſeqꝛ ꝯclō. ¶ Alie ēt ꝯclō 7ª ꝛ 8ª ſequitur poſito caſu ꝙ
7 ʒ poncbaꝛ ad pbatiōēꝫ earūdeꝫ ꝯnīꝫ in pōne ppia. Nam
in caſu iſto idē eſt gᵒ mediꝰ pporˡⁱˢ iter calitatē ꝛ ſiccitatē
vtriuſqꝫ medietatis:qꝛ calitas in medietate vna ꝛ ſiccitas
in eadē ſūt eq̃les calitati ꝛ ſiccitati in alia medietate. Et ꝙ
totū ſit diffōrme pꝫ:qꝛ capiaꝛ ps cōpoſita ex duabꝰ q̃rtis
itermedijs:tūc calitas iſtiꝰ ptis corriſpōdet gradui vt ſex:vl
gradui vt octo: vt ibi dīc:ꝛ ꝯſilr eſt de ſiccitate:ſꝫ gᵒ vt ſex
eſt intēſioꝛ ꝙ̃ gᵒ mediꝰ pporˡⁱˢ iter octo ꝛ q̃tuoꝛ vt ſatis pꝫ.
igiꝛ iſta ps eſt itēſioꝛ ꝙ̃ aliq̃ medietas totiꝰ ad pūctū meᵐ
8 ʒ determinatam.igiꝛ totū eſt diffōrᵉ.igiꝛ pꝫ ꝯclō 7ª. ¶ Et 8ª ꝯ
pꝫ p ideꝫ.pᵃ.n.ps pbata eſt: ꝛ 2ª pꝫ:eo ꝙ gᵒ mediꝰ pporˡⁱˢ
iter ſicᵗᵉᵐ ꝛ calitatē vtriuſqꝫ medietatis eſt remiſſioꝛ ꝙ̃ gᵒ
vt ſex: ꝛ tota calitas corriſpōdet gradui vt ſex vel vt octo:ꝛ
ſilr tota ſiccitas:ꝛ per ꝯñs totū eſt intēſuꝫ gradu vt ſex vl
gdu intēſiori.ſeqꝛ ꝫ ꝯclō. ¶ Cōtra iſtas duas ꝯnes arᵉ vt
9 ʒ pꝫ. ¶ Et ꝙ 9ª ꝯclō ſeq̃ꝛ ex pōne arᵉ ſic. ponaꝛ caſus iſte
ꝙ.a.ſit ꝯſilr diſpoſitū ſicꝫ erit in fine in caſu poſito ad pba-
tionē quīte ꝯnis ꝯ iſtā pōnēꝫ reducte ꝑter ꝯ qꝺ vbi poniꝛ
ꝙ gᵒ mediꝰ pporˡⁱˢ iter calitatēꝫ ꝛ ſiccitatē cuiuſlibet ptis
pporˡⁱˢ.a.ſit eq̃lis gradui meᵒ pporˡⁱ inter calitatē ꝛ ſicᵗᵉᵐ
ptis corriſpōdētis.b.hic aūt ponaꝛ ꝙ ſideat ſiccitati corriſpō-
denti ptis.b.ꝛ ſeqꝛ ꝙ pᵃ ps pporˡⁱˢ ipſiꝰ.a.eſt aliq̃lr intēſa:
ꝛ 2ª ps pporˡⁱˢ in duplo remiſſioꝛ:ꝛ 3ª in q̃druplo:ꝛ ſic in
ifiᵐ:qꝛ in iſto caſu in fine erit ſiccitas pᵉ ptis pporˡⁱˢ aliq̃lr
intēſa:ꝛ ſiccitas 2ᵉ ptis pporˡⁱˢ.b.in duꝰ remiſſioꝛ ꝛ ſic in
ifiᵐ:ꝛ gᵒ mediꝰ pporˡⁱˢ iter calᵗᵉᵐ ꝛ ſicᵗᵉᵐ cuiuſlꝫ ptis p-
portiōalis.a.eᵉ eq̃ intēſꝰ cū ſicᵗᵉ ptis pporˡⁱˢ corriſpōdētis in
b.ꝛ q̃lꝫ ps pporˡⁱˢ.a.in fine erit ꝯſilr intēſa: ſicꝫ gᵒ medius
pporˡⁱˢ iter calitatē ꝛ ſicᵗᵉᵐ eiuſdē ptis. igiꝛ pᵃ ps pporˡⁱˢ.
a.tūc erit aliq̃lr intēſa ꝛ 2ª in duꝰ remiſſioꝛ ꝛ ſic deinceps:ꝛ
tūc eſt.a.ꝯſilr diſpoſitū ſicꝫ tūc erit.ꝫ pᵃ ps pporˡⁱˢ eſt nūc
aliqualr intēſa:ꝛ 2ª in duꝰ remiſſioꝛ:ꝛ ſic in ifiᵐ:ꝛ totum.a.

eſt īfinite intēſuꝫ:qꝛ calitas eſt īfinita ꝛ ſiccitas eſt infinita
vt ibi arguebatur: ſequenꝛ igiꝛ cōtra iſtā poſitionēꝫ incō-
uenientia ſicut contra alias.

Pro iſtis ſuſtinēda eſt 3ª pō.ſ.ꝙ oē elēm̄ hñs duas Suſtinet
qualitates pmas ineque intēſas eſt eque 3ª pō.
intēſuꝫ cū gradu medio pporˡⁱ inter iſtas q̃litates:ꝛ ſi vna
qualitas eiꝰ foret vt octo ꝛ alia vt duo mediꝰ gradus ppor-
tionalis inter iſtas eſt vt q̃tuoꝛ: ꝛ ideo totū corriſpōdet gra-
dui vt q̃tuoꝛ:ꝛ ſic remiſſo remiſſa vna q̃litate ꝛ ſtāte aᵃ totū
dꝫ remitti. ¶ Et tūc ad pmā ꝯneꝫ negaꝛ iſta:ꝛ ad pbatio- Ad pᵐ
nem admittaꝛ caſus:ꝛ dī ꝙ in fine erit remiſſius ꝙ̃ ſex:qꝛ ꝯnem.
gradus mediꝰ pportionalis iter octo ꝛ q̃tuoꝛ eſt remiſſioꝛ
ꝙ̃ ſex. Et tūc cū arguiꝛ ꝙ ſiccitas tūc faciet vt duo ꝛ cali-
ditas vt q̃tuoꝛ.negaꝛ:qꝛ eq̃lis calitas cum ſiccitate remiſ-
ſiori minꝰ facit ꝙ̃ cū intēſiori:ꝛ iō ſicut ſiccitas erit tūc re-
miſſioꝛ ꝙ̃ nūc eſt: ita tūc minꝰ faciet ꝙ̃ in pnᵒ:ꝛ ideo tunc
nō faciet vt q̃tuoꝛ in cōparatiōe ad totū:ꝛ ſic nō pcedit arᵐ.
¶ Pro 3ª ꝯne cōcediꝛ ꝛ ſilr 4ª:ꝛ ſic etiā quinta ꝛ ſepta.ꝛ Ad 3ᵐ
tūc ad argᵐ in oppoᵐ ꝯcediꝛ ꝙ ad oēm punctū erit eq̃lis
remiſſio ſicut ad aliquē:ꝛ tūc cū dī ad nullum punctū erit
intēſio.hoc neᵒ:qꝛ ad punctū mediū erit remiſſio vtriuſqꝫ
medietatis:ꝛ tñ ad eundē punctū erit intēſio totiꝰ corpis ꝛ
cuiuſlꝫ alteriꝰ ptis cuiꝰ iſte punctꝰ eſt mediꝰ:ꝛ ſi ex iſto ar-
guiꝛ.igiꝛ ad eundeꝫ punctū ſil' eſt intēſio ꝛ remiſſio:dī ꝙ
nō eſt incōueniēs:ꝛ hoc reᵗᵘ diuerſoꝝ:quoꝝ vnū intēdiꝛ ꝛ
aliud remittiꝛ:ꝛ tūc intellige ꝙ ly ad capiꝛ ibi excluſiue.
¶ Ad argᵐ ꝯtra 4ᵐ ꝯnem negaꝛ iſta ꝯña.ſ.ad oēm pun- Ad arᵐ
ctū vniꝰ erit equalis remiſſio ſicut ad aliquē punctuꝫ cor- ꝯ 4ᵐ
riſpōdentē alteriꝰ.ꝫ ſi ſunt nūc eque intēſa ꝯtinue erunt eque
intēſa:qꝛ lꝫ ad oīa puncta erit eq̃lis remiſſio: hoc nō eſt in
cōparatione ad tota ſubiecta:ſed in cōparatione ad ptes ad
iᵃ puncta terminatas:ꝛ ſic ſoluiꝛ ꝯclō. ¶ Ad argᵐ ꝯ q̄ntaꝫ Ad arᵐ
ꝯnem negaꝛ iſta ꝯña. ad oēm punctū.a.erit pciſe equalis ꝯ 5ᵐ
remiſſio ſicut ad aliquē punctū corriſpōdentē.b. ꝫ equalr re-
mittetꝛ vnū ſicut reliquū:qꝛ ſtat.a.ꝯtinue intēdi:lꝫ ad oēm
punctū ſit equalis remiſſio:tñ q̄nta ꝯclō pōt negari: eo ꝙ
in īfinitū intēdetꝛ pma ps pportionalis.a. incipiēdo diui-
ſionē in alio extremo ipſius:vt argᵉ de toto.a. ſed ꝯclō eſt
cōcedēda:qꝛ ſꝫ illā diuiſionē oēs ptes pporˡᵉˢ.a. equaliter
remittenꝛ:ꝛ ſic ꝯclō nō eſt incōueniēs. ¶ Cōſilr dicitꝛ ad Ad 6ᵐ
ſeptū ꝙ quelꝫ ps pportionalis.a.ſm iſtā diſionē eſt in duꝰ
remiſſioꝛ ꝙ̃ ps pporˡⁱˢ.b.corriſpōdēs: ſꝫ nō ſm aliā diſionē:
ꝛ dī ꝙ.a.eſt diffōrme:ꝛ tūc q̃n arguiꝛ. igiꝛ ſi q̃lꝫ ps ppor-
tionalis.b.ſit in duꝰ intēſioꝛ ꝙ̃ ps corriſpōdēs.a.ſeqꝛ.b.eē in-
tenſius.a.dī ꝙ nō ſeqꝛ acciᵈᵒ ptē pporˡᵉᵐ ſm iſtā diuiſio-
nem. Si tñ ſimplr cōcederetꝛ de oī pte pporˡⁱ ſequeretꝛ ꝙ
a.nō foret īfinite intēſius.b. ¶ Ad ſeptimā ꝛ octauā ꝯneꝫ Ad 7ᵐ
cōcedanꝛ:ꝛ ad argᵐ in oppoᵐ negaꝛ hec ꝯña. Preciſe ad ꝛ 8ᵐ.
oēm punctū eſt eq̃lis intēſio.igiꝛ totuꝫ nō eſt diffōrme:qꝛ
lꝫ ad oēm punctū ſit eq̃lis intēſio,ad aliquē tñ punctū eſt
aliq̃ intēſio alicuiꝰ ptis cuiꝰ.ſ.iſte punctꝰ eſt mediꝰ:ꝛ tñ ad
eundeꝫ punctū eſt minoꝛ intēſio alteriꝰ ptis que ad iſtum
punctū terminaꝛ:cuiꝰ.ſ.iſte punctꝰ nō eſt punctꝰ intrinſecꝰ
tenēdo ly ad excluſiue vt pdicꝛ:ꝛ ſic nō pcedit argumētū.
¶ Ad nonā ꝯneꝫ ꝯcediꝛ ꝙ ſm iſtā diuiſionē pᵃ ps ppor- Ad 9ᵐ
tionalis eſt aliq̃lr intēſa ꝛc. Sꝫ acciᵈᵒ diuiſionē in alio ex-
tremo pᵃ ps pporˡⁱˢ eēt īfinite intēſa:qꝛ iſta ꝯtineret ſcdaꝫ
ptē pporˡᵉᵐ ꝛ reſiduas in qbꝰ argutū eſt ꝙ calitas eſt ifiᵗᵃ
ꝛ ſiccitas īfinita. ¶ Et tūc ad argᵐ in oppᵐ negaꝛ ꝯñtia:ſi
quelꝫ ps pporˡⁱˢ eſt eq̃ intēſa cū pᵒ totū eēt finite intēſuꝫ.
ſtaret.n.ꝙ gradus mediꝰ pporˡⁱˢ iter calitatē ꝛ ſiccitatem
cuiuſlꝫ ptis pporˡⁱˢ ſm iſtā diuiſionē eēt tantꝰ ſicꝫ gradus
medius pporˡⁱˢ iter calitatē ꝛ ſiccitatē pme ptis pporˡⁱˢ:
dū tñ ſm diuerſas ptes tam calitas ꝙ̃ ſiccitas maioreꝛ in
infinitū vel ſit infinite magna:ꝛ ſic argᵐ nō pcedit.

¶ Tractatus Quartus de intēſione ⁊ remiſſione mixtoꝝ.

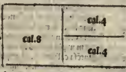
pª pō. **R**Eſtat pōnes cōcernētes intenſionē ⁊ re-
miſſionē mixtoꝝ tāgere ⁊ ſunt 4ᵒʳ
in numero. ¶ Prīa ponit ꝙ intēſio mixti ſe-
quit̃ ꝓportionē eſtti dominātis ad eſtuꝫ ſub-
dominās vt ſi ſit mixtuꝫ ex calido ⁊ frigido ⁊
caliditas ſit maior ꝙ̃ friditas: tūc illud mixtū eſt alio inten-
ſius ſicut ꝓportio caliditatis ad frigiditatē in iſto eſt maior
ꝓportiōe caliditatis ad friditatē in alio mixto: ⁊ penes hoc
ꝙ iſta ꝓportio maiorat̃ ſic maiorat̃ iª intenſio: ⁊ ſi ꝓporᵒ
2ª minoret̃: tūc intēſio iª minorat̃ ⁊c̃. ¶ Scđa pō ponit ꝙ oē
mixtū eſt eque intēſuꝫ ſicut eſt eſtuꝫ dñans in eo: vt ſi cali-
ditas alicui⁹ mixti eſſet vt quatuor ⁊ friditas vt duo: tunc
3ª totū eſſet ita intēſuꝫ ſicut calidū vt quatuor. ¶ Tertia po
nit ꝙ oē mixtuꝫ eſt in du⁹ remiſſius ꝙ̃ ſimplex equalr̃ di-
ſtans a nō gradu per ꝙ̃tū eſtuꝫ dñans excedit eſtuꝫ ſub-
dominās: vt ſi caliditas in mixto excederet ſuā friditatē ꝑ
quatuor: tūc totū mixtū eſſet calidum vt duo: ⁊ addit etiā
ꝙ id mixtū eſt equalr̃ intēſuꝫ ſicut ſi eſtuꝫ dñans vel q̃li-
tas dñans foret vna medietas per ſe vel extēderetur per
vnā medietatē: ⁊ aliud eſtuꝫ .ſ. ſubdñans eſſet aª medie-
4ª tas ſeu q̃litas extēſa ꝑ aliā medietatē. ¶ Quarta ponit ꝙ
attēdit̃ penes exceſſuꝫ dñantis eſti ſupra eſtuꝫ ſubdñans
ita ꝙ id mixtū eſt eq̃lr intēſuꝫ cū ſimplici equalr̃ diſtante
a nō gradu ſicut eſtuꝫ dñans excedit eſtum ſubdñans. Et
hec eſt bipartita. Una eniꝫ ponit ꝙ oīs qualitas eſt eque
intēſa ſicut aliqua ei⁹ pars: ⁊ ꝙ penes exceſſum qualitatis
ſumme ſeu maxime dñantis ſupra q̃litatē aliā ſeu ꝑ totū
extēdat̃ ſeu per ꝑtes hꝫ intēſio toti⁹ attēdi. Sed alia pōit
ꝙ ſi qualitas ſit difformis extēſa per aliqđ ſubm̄ iſta cor-
rñdet alicui gradui intrinſeco: ⁊ ſic penes exceſſuꝫ gradus
cui corrñdet iª q̃litas intēſior ſupra gradū cui corrñdet aª
qualitas .ſ. remiſſior attēdit̃ intēſio huius mixti. Si etiam
qualitas dñans extēdat̃ per ꝑteꝫ ⁊ nō per totū: ⁊ ēt q̃litas
ſubdñans: tūc vt dictū eſt vbi tāgit̃ de denoiatione quali-
tatis: illa q̃litas nō denoiat totū ita intēſuꝫ ſicut eſt gradus
illius qualitatis: ſed ſub aliquo gradu remiſſiori. Capiat̃
igit̃ gradus quo q̃litas intēſior denoiaret totū ꝑ cui⁹ ꝑteꝫ
extendit: ⁊ capiat̃ gradus quo q̃litas remiſſior ſufficit de-
noiare totū ſubm̄ ſi per ſe ibi eſſet ⁊ penes exceſſuꝫ vnius
talis gradus ſupra aliū toti⁹ intēſio attēdit̃: vt ſi caliditas vt
octo extēderet̃ per vnaꝫ medietatē ⁊ friditas vt quatuor
extēderet̃ per aliā medietatē: tūc iſta q̃litas vt octo iuxta
pōneꝫ vnā ſufficit totū ſubm̄ denoiare ſoluꝫ gradu vt 4ᵒʳ
deducta friditate: ⁊ iª friditas deducta caliditate denoiaret
totū gradu vt duo. ideo exceſſus denoiatiōis vnius ſupra
aliū eſt ſolum binarius: ⁊ ideo totuꝫ mixtū eſt ita intēſum
ſicut ſimplex vt duo.

3ª pª pōneꝫ **Contra primā** pōnem arguit̃ eaꝫ vnica ratiōe
ipꝛoᵐ: ex iª eniꝫ ſeq̃t̃ ꝙ infinite
intēſius eſt aliqđ remiſſiuꝫ mixtuꝫ ꝙ̃ ſummū. ſignet̃ enim
aliqđ mixtū cui⁹ caliditas intēdat̃ ad ſummū ⁊ friditas re-
mittat̃ ad nō graduꝫ: tūc in infiᵐ maiorabit̃ ꝓportio cali-
ditatis ſupra friditatē eo ꝙ caliditas cōtinue erit maior ꝙ̃
nūc eſt ⁊ ad ſui ſubduplū ſubquadruplū ſuboctuplum
⁊ ſic in infiᵐ remittet̃ friditas: ⁊ per ꝯñs infinite intēſuꝫ erit
añ finē. ꝯña tenet ꝑ pōnē. Ponat̃ igit̃ ꝙ ſub quocūqꝫ gra
du erit hoc mixtū ꝙ ſit aliud mixtū ſic intēſum: ita ꝙ ſint
infinita mixta: ⁊ ſeq̃t̃ ꝙ cū infinite intēſuꝫ erit pᵐ mixtum
datū ꝙ infinite eſt aliqđ iſtoꝝ intēſuꝫ: q: eque intenſum eſt
aliqđ iſtoꝝ ſicut vnq̃ erit illud: ⁊ gradus ſumm⁹ eſt ſoluꝫ
finite intēſus: q: finite diſtat a nō gradu vt arguit̃ vbi tā-
git̃ penes qđ ſimplr̃ attēdit̃ intēſio ⁊ remiſſio qualitatis.
igit̃ ſeq̃t̃ ꝙ infinite intēſius eſt aliqđ iſtoꝝ ꝙ̃ ſummū: ⁊ qđlꝫ
iſtoꝝ eſt remiſſum ⁊ mixtū. igit̃ ſeq̃t̃ ꝯclō que tñ eſt falſa:

q: friditas impedit denoīationē caliditatis. igit̃ nunq̃ erit
mixtū: lꝫ hēet caliditatē ſummā eque inten̄ calꝫ ſicut ſūme
calm̄. igit̃ nec a multo fortiori intenſius cū iª caᵗᵉ nūq̃ erit
ſummū q̃diu habebit friditatē ſecū admixtā ſeu coextē-
ſaꝫ. ¶ Itē ſeq̃t̃ ꝙ vbi aq̃ pura incipet agere in ignē ſum-
muꝫ ſubito gñaret aliqd infinite calm̄: q: ſubito gñaret fri-
giditatē nᵒᵐ: tñ certā nec per certā latitudinē ſubito ibi re
mitteret caliditatem: eo ꝙ infinite velociter ageret. igit̃ imeᵗᵉ
poſt iſtud inſtās gñaret mixtuꝫ in quo infinite magna eſſet
ꝓportio caliditatis ad friditatē. cū igit̃ intēſio mixti ſequit̃
ꝓportionē q̃litatis dñantis ſupra q̃litatē ſubdñantē: ſeq̃t̃
ꝙ imediate poſt hoc gñaret mixtuꝫ infinite calm̄. ĝ ſeq̃t̃ ꝯ.
¶ Cōtra quā ſic arguit̃. pᵒ nō eſt nāle ꝙ friduꝫ gñet calm̄
vel intēdat. 2ᵒ ſic: ex quo inducit friditatē poti⁹ denoiationē
calidi impediret iⁿ acᵒ ꝙ̃ ꝓmoueret: ⁊ ita cū in ꝑncipio tota
caliditas ſoluꝫ finite denoiat. ĝ inducta friditate nō infini-
te denoiabit. ĝ iª poſitio nō eſt vera.

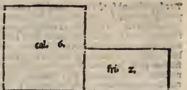
Pro ſecūda pōne ſic arᵗ. Signet̃ mixtū ex calīo
⁊ frido. ⁊ arᵗ ſic. eadē eſt mā mixti ⁊ — Pro 2ª pōne q̃ ē Heſbe-ri.
ſimplicis. ĝ iª caliditas eq̃lr denoiabit mixtū eē calidum ⁊
ſimplex eo ꝙ eadē ē caliditas mixti ⁊ ſimplicis. ſi igit̃ fridi
tas nō impediet dnoiationē ſimplicis ab iª caliditate ꝑ idē nō
impediet denoiationē mixti ab eadē caliditate. ¶ Cōtra illā — 3ª pōneꝫ
ſic arguit̃. Ex iª ſeq̃t̃ ꝙ vbicūqꝫ mixtū calm̄ remittet̃ ad
nō gradū eē calidi ſubito magnā latitudinē intēſionis de-
perdet. Ex q̃ ſeq̃t̃ ꝙ aliquid infinite veloʳ aget ꝑ certū tē-
pus: ⁊ ꝙ ex ꝓportiōe finita ꝓueniet mot⁹ infinit⁹. ¶ Prīa
ꝯclō arᵗ ſic. Sit .a. mixtū ex calido ⁊ frido cui⁹ .b. ſit eſtum
dñans ⁊ calm̄ ⁊ remittat̃ caliditas .b. ad gradū mediū ⁊ intē
dat̃ friditas .a. ad mediū: q: aliter .a. nō remitteret̃ ad nō
gradū eē calidi: tūc ſic arguit̃ .a. ⁊ .b. ꝯtinue ante finē erunt
eque calida: ⁊ in fine .a. erit nō calm̄ ⁊ .b. calidum in gradu
medio. ĝ totā latitudinē intēſionis a gradu medio vſqꝫ ad
nō graduꝫ ſubito deꝑdet .a. ⁊ ſic de oī alio eſt arguēdum.
igit̃ ſeq̃t̃ ꝯclō. ¶ Scđa ꝯclō etiā ſequit̃: q: ponat̃ ꝙ illud — 2ª
agēs qđ remittet caliditatē .a. pri⁹ remittat caliditatē ad meᵐ
ad puncta ꝓpinquiora ſibi ꝙ̃ remotiora: ita ꝙ in oī inſtāti
hui⁹ tꝑis erit caliditas ad aliquē punctū ad graduꝫ mediuꝫ
⁊ ꝙ ꝯtinue añ iſtud inſtās erat caliditas intēſior ad iſtū pun-
ctū ꝙ̃ tūc erit ſicut eſt vex: eo ꝙ citius remittet caliditatem
ad gradū mediū ad pūcta ſibi ꝓpinquiora ꝙ̃ remotiora: q:
veloci⁹ ageret in ꝓpinquū ꝙ̃ in remotū: quo poſito añ qđlꝫ
inſtās imeᵗᵉ poſt hoc erit aliq̃ pars intenſa ſupra gradum
mediū que in illo inſtāti nō eſt aliq̃lr intēſa. igitur añ qđlꝫ
inſtās imeᵗᵉ ſubito totā latitudinē a gradu medio vſqꝫ ad
nō graduꝫ deꝑdet. ĝ iſtud remittēs infinite velociter aget
per totū tꝑꝰ. ergo ſeq̃t̃ ſcđa ꝯclō. ¶ Cum igit̃ illud agens — 3ª
erit ſoluꝫ finite potētie: ⁊ .a. finite reſiſtētie ⁊ infinite velo-
citer remittet̃: ſeq̃t̃ ꝙ ex ꝓportiōe finita ꝓuenit actio infi-
nita que fuit ꝯclō tertia deducēda. ¶ Item ſequit̃ ꝙ .a. b. — 4ª
ſunt duo ꝑciſe eque calida que ꝯtinue equeueᵗ remittent̃:
⁊ tñ citius deueniet .a. ad nō graduꝫ ⁊ fiet nō caliduꝫ ꝙ̃ .b.
In caſu eniꝫ precedēti .a. b. ſunt eque calida ꝑciſe ⁊ ꝯtinue
añ finē erūt eque calida per pōneꝫ ⁊ ꝯtinue añ finē eq̃ueᵗ
remittent̃ ⁊ in fine .a. erit nō calm̄ vt cōſtat: q: tūc tantuꝫ
habebit de caliditate ſicut de friditate: ⁊ .b. tūc erit calm̄: q:
in gradu medio. ĝ ſeq̃t̃ ꝯclō. ¶ Iō forte dī ꝙ nō eſt incō — Rñſio.
ueniēs ꝙ .a. ſubito certam latitudinē deꝑdet. ¶ Cōtra .a. — Cōtra
nullaꝫ latitudinē deꝑdet eē calidi niſi per remiſſionē cali-
ditatis ⁊ intēſionē friditatis. igit̃ cū ſubito nulla erit acq̃ſi-
tio friditatis nec remiſſio caliditatis ſeq̃t̃ ꝙ finite velociter
ſoluꝫ remittet̃ .a. ⁊ nullaꝫ latitudinē ſubito deꝑdet. ¶ Itē
data iª rñſione ſequit̃ 2ª ꝯclō ⁊ 3ª vt prius oīo arguebat̃.
¶ Itē ſic arᵗ ex iª: ſeq̃t̃ ꝙ idē eſt calm̄ ⁊ friduꝫ. Signet̃
eniꝫ vnū mixtū cui⁹ caliditas ſit dupla ad friditatē ⁊ arᵗ ſic.

Hec frigiditas nō īpedit denoīationē illiꝰ caliditatis per
pōnē.ḡ lʒ ſibi tāta frigiditas adderet̄ iº nō īpediret:⁊ per
ꝯñs nec totū cōpom ex his ſicut ex duobꝰ nō quātis nunq̄
fit vnū q̄ntū:⁊ ſi ſic lʒ tāta ēēt frigiditas ſicut caliditas nō
minus totū denoīaret̄ calidū:⁊ per ꝯñs adhuc totū ēēt ca
lidū ⁊ eadē rōne frigidū:eo ꝙ tātū hēt de calitate ſicut de
fridītate p̄ciſe. Itē rōnale eſt ex quo tota fridītas totā de-
noīatione ēē calidi īpedit ꝙ pars fridītatis ptem tolleret
q° ad hec ē Eſbe ſi in trac. de incipit ⁊ deſinit. denoīatiōis caliditatis:ꝙ tñ nec hec poſitio. ¶ Pro iſtis
forte dī ꝙ latitudo mixti nō terminat̄ ad nō gradū ſimpr
in extremo remiſſiori:ſʒ ad gradū mem totꝰ latitudīs cali
ditatis qui eſt nō gradus ēē calidi mixti:eo ꝙ nullū mix-
tū pōt eſſe calidū iº gradu:⁊ ſic nullū mixtū pōt ēē alio in
duplo minꝰ calidū:q̄a omne mixtū eſt calidū ſupra mem:⁊
nullus gradus ſupra gradū mem totꝰ latitudīs caliditatis
eſt duplus ad aliū ſupra mem vt ꝯſtat:eo ꝙ gradus ſūmus
Reſponſ. eſt p̄ciſe duplus ad mediū totꝰ latitudinis. ¶ Cōtra hāc
rñſionē arr:⁊ h̄ ponēdo ꝙ q̄litas minus denoīat ſubm q̄n
extēdit̄ per p̄tē illius q̄ȝ q̄n extēdit̄ per totū:vt p̄us dicit̄:
vbi tāgit̄ de denoīatiōe q̄ntitatis. ¶ Alia.n.poſitio eſt po
nēs ꝙ q̄litas eſt eque itēſa ſicut aliq̄ pars eius:⁊ tātū de-
noīat ſicut ſufficit ſiue extēdat̄ per totū ſiue nō:ſi non ad-
miſceat̄ cū ſuo ꝯ̄rio.Sʒ hec rñſio hʒ hāc pōnem negare ⁊
negat:q̄a iº aliqualr ꝯcederet ꝙ aliqḋ eſt ſūme calidū ad-
mixtū cū ſuo ꝯ̄rio:vel cuiꝰ aliq̄ pars eſt frigida vt ſit vna
pars ſūme calida:⁊ alia remiſſe frigida. Hāc tñ rñſionē
euitat iª poſitio q̄n por ſi nō admiſceat̄ ſuo ꝯ̄rio ⁊c̄.q̄a tūc
nō eſt ibi aliqḋ reale īpediēs:adeo ſolū alij vt p̄dicit̄ illam
pōnē 2m poterūt rōnabilr ſuſtinere. Hec igit̄ rñſio cum
pōne iuxta ſic ponētes multiplr reprobat̄. ¶ Primo arr
ſic ꝙ aliqḋ mixtū pōt ēē alio in duplo minus calidū:⁊ in
triplo minꝰ calidū:⁊ ſic de alijs ex quo ſeq̄t̄ ppom. ¶ Po
nat̄ eiʒ ꝙ.a.ſit mixtū equalr cōpom ex calido ⁊ frigido ad
cuius extremū applicet̄ ſūme calidū ⁊ agat ꝯtr ex ppor-e
quā hʒ ad agēdū:⁊ ſeq̄t̄ ꝙ immediate poſt h̄ erit.a.calidū:
eo ꝙ nūc eſt equalr cōpom ex calido ⁊ frigido:⁊ īmediate
poſt h̄ ſua caliditas itēdet̄ ⁊ nō ſua frigiditas vt pono:ſʒ
magnū tp̄s erit anteq̄ȝ.a.erit calidū ſupra mediū.igit̄ cū
ſua q̄litas dñans ꝯtinue erit ſupra mediū.pʒ pōnē ēē fal
ſam.añs pʒ:q̄a ſi.b.foret vnū tale:cuius vna medietas ſit
ſūme calida:⁊ alia ſit equalr cōpoſita ex calido ⁊ frido.
Tunc magnū tp̄s
erit anteq̄ȝ.a. erit
ita itēſa ſicut nunc
eſt.b. q̄a magnū
tēpus erit anteq̄ȝ
medietas.a.ſit ſū
me cala:⁊ anteq̄ȝ
actio ad p̄cīum



mediū deueniat:eo ꝙ p̄us aget in ppinquū q̄ȝ in remotū.
igit̄ per totum iº tp̄s erit vna medietas.a.equalr cōpoſita
ſicut vna medietas.b.⁊ alia medietas.a.tunc erit remiſſior:⁊
alia medietas.b.ſūma.igit̄ p totū illud tp̄s erit.b.intēſius
a.⁊.b.p illud tp̄s erit ita itēm ſicut nūc eſt:⁊ nūc eſt eque in-
tēſum ſicut ſimplex in gradu medio totꝰ latitudīs calis.igit̄
p magnū tp̄s erit.a.remiſſius tali ſimplici.ḡ ſeq̄t̄ ꝙ poſi-
tio eſt falſa.añs arr:q̄a poſito p imaginationē ꝙ caliditas
⁊ fridītas in medie.b.equalr cōpoſita remittant̄ eq̄ velor
ad nō gm totū.b.nec itēdet̄ nec remittet̄:q̄r tātū depēdet de
ipeᵐ ſine itēſionis ſicut de itiaᵗ:ſʒ in fine foret in medio g°
vel corriſderet ſimplici in g° medio vt arr.vbi tāgit̄ qualr
qualitas ſubm denoīat.igit̄.b.nunc tali gradui corriſdet.
¶ Silr poſito p imaginaᵒᵉʒ ꝙ iſta meᵗᵃˢ ſūma.b.remittat̄
ad nō gm ſine inductiōe frigiditatis ſtāte alia medietate ⁊
manēte medieᵗᵉ iª remiſſa in fine nō q̄lificata:⁊.c.ēēt co-
pus ſūme calm p totū:qḋ ḡ totū remittet̄ ad nō gm calita-
tis ſine inductiōe fridītatis:tūc in duplo velociꝰ remittet̄
c.q̄ȝ.b.eo ꝙ remittet̄ p totū iº g° quo.b.p medietatem ſolū:ſʒ
c.remittet̄ a g° ſūmo p̄ciſe ad nō gm.ḡ.b.remittet̄ a gradu
medio ad nō gm:q̄r p in duplo minorē latitudinem remitteret̄
b.q̄ȝ.c.⁊ p ꝯñs in pn° eſt.b.calm in g° medio ſimpr. ¶ Itē
poſito ꝙ fridītas in medieᵗᵉ equalr cōpoſita.b.incipet itē-
di:tūc ſubito p pōnē ēēt vna medietas.b.ſupra gm mediū
frida:⁊ alia medietas ſūme cala.igit̄ totū tūc corriſderet
gradui remiſſiori medio ⁊ nullā latitudinem ſubito deperdet:eo
ꝙ fridītas ſolū finite velor itēdet̄ ⁊ nō remittet̄ niſi p itē-
ſionē fridītatis. ¶ Et pº ꝯña arr ſic.plus tollit iª fridītas Pria pña multipliter pbat.
denoīatione cali q̄ȝ ſi ēēt illa medietas maꝰ nō q̄lificata p
quā nihil extēderet̄. ¶ Silr ſi in iſta medieᵗᵉ ēēt fridītas 2
ſūma tolleret totā denoīationē ēē calidi.ḡ cū iª medietas
īmediate poſt h̄ erit ſupra gm mem fridītatis:ſeq̄t̄ ꝙ plus
q̄ȝ medietatem illiꝰ denoīationis tollet. ¶ Itē dato oppoſito 3
ſeq̄t̄ iſta ꝯclo ꝙ aliq̄ ſunt duo calida:q̄rū medietates pr ſunt
p̄ciſe eque cale:⁊ alie medietates eque fride:⁊ tñ vnū eſt alio
itēſius ſeu calidꝰ.Sit nūc vnū tale iſtās in quo medietas
b.eſt frida vt in p̄ori caſu:⁊ totū eſt calm ſupra mem vt po
nit poſitio:⁊ ſit.c.vnū tale:cuiꝰ vna medietas eſt ſūme cali
da ⁊ alia ſimplex frida eque itēſa ſicut medietas frida.b.et
ſeq̄t̄ ꝙ.b.eſt in magna pporᵉ calidiꝰ.c.q̄r.c.eſt calidū ſub
medio g° vl in medio equalr vt pōt argui:eo ꝙ tota fridī-
tas iª ſimplex totā denoīationē īpediret ſi ēēt ſūma.ḡ me-
dietas medietatem:⁊ etiā q̄r ſi ibi nulla ēēt fridītas ſʒ ēēt mā
pº nō q̄lificata:tūc ēēt.c.in gradu medio per p̄arum.igit̄
nūc corriſdet gradui remiſſiori medio:q̄r frigiditas aliqd
tolleret de eiꝰ denoīatiōe:⁊ tñ medietates fride ſunt eque itē
ſe ⁊ medietates calide. ¶ Silr ſeq̄t̄ ꝙ aliq̄ ſunt duo cala:q̄ꝝ 4
vtriuſq̄ eſt vna medietas ſūme cala ⁊ vniꝰ alia medietas
eſt cala ⁊ alia alteriꝰ eſt frida:⁊ tñ iª ſunt eque cala.ſit vna
medietas.b.ſūma vt p̄us ⁊ alia cōpoſita:ita ꝙ fridītas ſit
ſupra gradū mem:⁊ ſit vna medietas.c.ſūme calida ⁊ alia
nō q̄lificata:⁊ acq̄rat̄ calitas in medieᵗᵉ iª ſucceſſiue ſtāte
alia medietate ſūma:⁊ ſeq̄t̄ ꝙ ſic remiſſe cala pōt illa me-
dietas ēē ꝙ totū corriſdebit illi gdui ſupra mem q̄ntūcūq̄
modicum diſtet a medio:vt tāgebat̄ p̄us.igit̄ ſeq̄t̄ ꝯclo de
b.c. ¶ Ideo forte dī ꝙ ſi vna ps.b.q̄ntūcūq̄ modica ēēt Rñſio
ſūme cala ⁊ reſidua pars nō q̄lificata ſeu nō cala totū ēēt
ſūme calm:⁊ ſic vbi vna medietas eſt ſūme calida:⁊ alia
eq̄lr cōpoſita totū eſt ſūme calm. ¶ Cōtra iº ſic arr.ex iº Cōtra
p:ſeq̄t̄ ꝙ ſūme calm eſt admixtū cū ſuo ꝯ̄rio.Silr ſeq̄t̄ ꝙ
aliqd eſt ſūmū qḋ erit remiſſius ⁊ nō remittet̄:vl ꝙ aliqd
īfinita velocitate aget p totā horā ad h̄ iſtās terminatā.h̄
ſic arr. Sit.a.p totū ſūme calm ⁊ incipiat.b.ſūme fridum
applicari ad alteꝝ extremū ⁊ pgrediat̄ ſua actio ſucceſſi-
ue:q̄r tātū pōt ēē.a.reſiſtēs ꝙ actio.b.nō ſubito p illḋ de-
ueniet:vt notū eſt.Signet̄ igit̄ illḋ iſtās in quo actio deue
niet p totū:⁊ ſit tūc gradus medius fridītatis p̄ciſe vel re-
miſſior ad extrem vbi incipit ēē actio:⁊ ſeq̄t̄ ꝙ in fine totū
erit remiſſius:q̄r vndiq̄ erit calitas remiſſa cū qua tūc ex-
tēdet̄ fridītas ⁊ nunq̄ȝ ante finē remittet̄:q̄r p rñſionē ꝯtr
ante finē erit ſūme calm:q̄r ꝯtr añ finem erit aliq̄ pars ſū-
ma ⁊ nulla ps frida.igit̄ nunq̄ȝ remittet̄. ¶ Ideo forte dī Rñſio
ꝙ imeᵗᵉ ante finē remittet̄ ſubito a gdu ſūmo vſq̄ ad gm
ſub quo tūc erit. ¶ Cōtra.ex iº ſeq̄t̄ 2ª pars diſiūctiue:q̄r ſi Cōtra
ſic īfinite velociter imeᵗᵉ añ finē remittet̄.⁊ idē eſt arm de
oī iſtāti illius tp̄is:eo ꝙ ad aliquē pūctū tūc erit actio vbi
ante illḋ iſtās nō erit actio:⁊ ſi ſic imeᵗᵉ ante qḋcūq̄ iſtās
datū īfinite velor remittet̄ pars p quā deueniet actio:⁊ ſic
īfinite velox erit ꝯtr remiſſio alicuius p̄tis:⁊ ſic ſeq̄t̄ ꝯclo.
¶ Itē ſeq̄t̄ iº ꝯclo ꝙ aliqd eſt ſūme calm:⁊ q̄ntūcūq̄ tar-
de incipit itēdi frigiditas per iº ſeu per vnā eius medie-

tatem ſubito diſtaret a gradu ſūmo per certā latitudinē:
que tñ nō videt̄ vera:q2 nō remittet̄ niſi per inductionē
fridiatis que eſt ſolū finita inductio. Et ꝙ ↄcluſio ſequat̄
arguit̄ ſic vt ṗus. ſit.b. vnū mixtū:cuius vna medietas ſit
ſūme calida ⁊ alia equal'r cōpoſita ex caliditate ⁊ frigidi-
tate:tūc incipiat frigiditas intēdi per 1^am medietatē equa-
liter cōpoſitā:⁊ remittat̄ etiā alia medietas vel ſtet:⁊ ſeq-
tur ꝙ.b.eſt ſūmū per rīſionē:⁊ ſubito per certā latitudi-
nē diſtabit a ſūmo:eo ꝙ imediate poſt hoc erit medietas
vna eius remiſſe calida vel ſūme calida : ⁊ alia medietas
frigida ſupra mediū:que friditas aliquā denoīationē eſſe
Rñ calidi ſufficit īpedire.igit̄ ſeq̄t ꝙ imediate poſt h̄ per cer-
tā latitudinē diſtabit.b.a ſūmo.ḡ ſeq̄t cōcl'o. ⁋ Si negat̄
vltima ↄñtia:q2 tūc erit caliditas imediate frigida que in-
Cōtra nabit denoīationē calidi. ⁋ Cōtra.h̄ nō īpediret denoia-
tionē frigidi:q2 erit remiſſioꝛ q̄ꝫ frigiditas in medietate il-
la.ḡ illa nō iuuabit ad intēſionem ſeu denoiationē calidi.
z ↄñtia pꝫ.⁊ añs ſil'r per pōnē. ⁋ Itē ex 1ª rīſione ſeq̄t ꝙ
ṗ^e medietates.a.b.ſunt eque calide ⁊ alie eque fride : ⁊ tñ
a.eſt remiſſius.b.q2 ſit de.b.vt ṗus : ⁊ ſit vna medietas.a.
ſūme calida ⁊ alteri^9 medietatis.a.ſit frigiditas tāta quā-
ta eſt in medietate equal'r compoſita.b.ſ.in gradu medio
nō admixta cū ſuo ↄrio:⁊ intēdat̄ frigiditas ↄſil'r ↄti^e in.a.
ſicut in.b.tunc.a.in ṗn^o diſtat a ſūmo:q2 vna ei^9 medietas
eſt frigida:⁊ nullū eſt ſūme calidū cuius vna medietas eſt
frigida:q2 1^a friditas aliqd de denoiatiōe toti^9 ſufficit īpe-
dire:q2 aliter nō videret̄ qual'r tota.ſ.frigiditas totā de-
noiationē eē calidi īpediret niſi pars poſſet aliq̄ꝫ ptē īpe-
dire:⁊.a.imediate poſt h̄ per plus diſtabit a gradu ſūmo
q̄ꝫ nūc:q2 friditas intēdet̄ ⁊ nō caliditas.ḡ imediate poſt h̄
a.ꝑ certā lati^{tu}ꝫ diſtabit a ſūmo:⁊.b.poſt h̄ ↄti^e erit eque
calidū cū.a.q2 medietates calide ↄti^e erūt eque intēſe:⁊ etiā
medietates fride iuxta pōnē.vel ſi negat̄ ↄñtia:ſeq̄t ꝙ.a.
erit remiſſius.b.imediate poſt h̄:⁊ tūc hēbit̄ cōcl'o:que tñ
eſt oino ↄtra rōnē:q2 tota cal'itas.a.erit eque intēſa cū ca-
liditate.b.vel intēſioꝛ:⁊ tota frigiditas eſt eque intēſa cū fri-
giditate.b.vī igit̄ repugnare pōni ꝙ vnū ſit alio intēſius.
Et ſi dicat̄ ꝙ hec poſitio ſit vera in vniformibus ⁊ nō in
difformib^9 īſufficiēs erit iſta poſitio cū in reb^9 multa dif-
z^a ↄñ^a ↄ hāc poſitionem. formia inueniant̄. ⁋ Itē ↄtra iſtā pōnem in ſe arg^r:q2 ex
illa ſeq̄t ꝙ ſi ſit vnū cal'm in gradu medio iter ſūmū ⁊ me-
diū:⁊ ſi vtraq3 q̄litas abſtrahat̄ ab illo mixto:quaꝝ vna
ponat̄ per vnā medietatē ⁊ alia per aliā:totū in fine erit
in triplo remiſſius q̄ꝫ in ṗn^o.nā capiat̄ vnū tale mixtū:tūc
ſi vna medietas illi^9 mixti foret diſpoſita 1^a cal'itate:⁊ alia
medietas foret mā ṗ^e nō qualificata,totū corrideret in-
tēſiue gradui medio inter gradū caliditatis illius medie-
tatis calide ⁊ nō gradū caliditatis.⁊ ille gradus ſolum di-
ſtat a nō gradu per quartā totius latitudinis ⁊ medietatē
vnius quarte.igit̄ tūc corrīdebit gradui diſtāti a nō gra-
du ſolū per 4^am ⁊ medietatē quarte totius latitudinis.ſi
igit̄ per 1^am medietatē nō qualificatā extenderet̄ gradus
eque intēſus frigiditatis ſicut eſt gradus caliditatis extē-
ſus per medietatē calidā:1^a frigiditas totā eius denoīatio-
nē eſſe calidi tolleret.igit̄ frigiditas ſubtripla 3^am ptē in-
tēſionis tolleret:⁊ 1^a frigiditas eſt eque intēſa cū frigiditate
hui^9 mixti.igit̄ inducta friditate illi^9 mixti per medie^{ta}tē nō
q̄lificatā tolleret 3^am ptē iſti^9 iten^is quā hēret ſi nō eēt fridi-
tas ꝑ illā medie^{ta}tē. Sꝫ iam tota ſua iten^o diſtat a nō gradu
ſolū ꝑ 4.^am toti^9 lati^{tu}^{dis} ⁊ ſemiq̄rtā:⁊ ſemiq̄rta eſt 3ª pars to-
ti^9 lati^{tu}^{dis} ꝑ quā diſtat.a.a nō gradu vꝫ 3ª pars ſue iten^{tis}.ḡ
ablata 1ª ſemiquarta ſolū diſtabit a nō gradu ꝑ 4.^am toti^9
lati^{tu}^{dis}:⁊ ꝑ ↄñs tūc erit in g^u me^o medie^{ta}^{tis} remiſſioris totius
lati^{tu}^{dis} cal'itat:qui ḡdus eſt ſubtriplus ad g^m me^m medie^{ta}^{tis}
intēſioris toti^9 lati^{tu}^{dis} ſub quo eſt illō mixtū.ḡ ↄcluſio vera.



⁋ Ex 1^a ↄne ſeq̄t 1^a ↄcl'o ꝙ.a.eſt in triplo intēſius.b.qd cō- Coro^m.
tinue ꝑciſe in duplo velocius remittet̄ q̄ꝫ.b.⁊ tamē eque-
cito deueniet.a.ad nō gradū,nulla latitudine ſubito deꝑ-
dita nec acquiſita:q2 ſit.a.tale mixtū in medio gradu me-
dietatis intēſioris totius latitudis cal'itatis : ⁊ ſit vna me-
dietas.b.diſpoſita 1^a cal'itate modo ṗdicto : ⁊ alia medie-
tas 1^a frigiditate:tūc per ṗus ꝓbatū.a.eſſe in triplo inten-
ſius.b.remittat̄.ḡ eoꝝ cal'itas ad nō gradū eodē gradu:⁊
in eodē tp̄e qd eſſe pōt:q2 per equalē latitudinē diſtant a
nō gradu iſte due cal'itates:⁊ ſeq̄t ꝙ.a.ↄtinue ꝑciſe in du-
plo velocius remittet̄ q̄ꝫ.b.q2 eodē gradu per totum quo
b.per medietatē.ḡ in duplo veloci^9 remittet̄.a.q̄ꝫ.b. Et ꝙ
equecito deueniāt ad nō gradū eē calidi arguit̄ ſic. Eque-
cito remittent̄ eoꝝ caliditates ad nō gradū per caſum : ⁊
etiā equecito remittent̄ eoꝝ caliditates ad equalitatē ſue
frigiditatis.ḡ equecito deueniēt ad nō gradū eſſe calidi.ḡ
ↄcluſio vera. ⁋ Illud idē ſic ꝓbat̄. Intēdat̄ friditas vtri-
uſq3 ad equalitatē ſue cal'itatis,ſua cal'itate nō remiſſa ad
imaginationē eodē gradu cōtinue:⁊ ſequit̄ ꝙ.a.in duplo
velocius ↄtinue remittet̄ q̄ꝫ.b.q2 ſolū remittet̄ per intēſio-
nē frigiditatis:⁊ in iſtis eodē gradu intēdent̄ frigiditates
in.a.tñ per totū:⁊ in.b.per medietatē ſolum:ḡ.a.in duplo
velocius remittet̄ q̄ꝫ.b.⁊ equecito deueniet ad nō gradū.
Naꝫ equecito eoꝝ frigiditates intēdent̄ ad eq̄litatē cali-
ditatū coꝛrīdē:ex quo per eq̄lē latitudinē diſtāt ab equa-
litate eaꝝ ⁊ eodē gradu intēdent̄.ḡ ſeq̄t ↄcluſio. ⁋ Sil'r z^m
ſequit̄ 1ª ↄcluſio:ꝙ.a.eſt eque intēſuꝫ cū.b.⁊ ↄtinue in du-
plo velocius intēdetur q̄ꝫ.b.vel plus q̄ꝫ in duplo:⁊ in fine
erit.b.in ſexgoctaua ꝓpoꝛ^{ne} intēſius.a.hec ↄcl'o manifeſte
includit ↄdictionē:⁊ ſequit̄. Nam ſm ꝙ ꝓbat̄.a.eſt in tri-
plo intēſius.b.dato igit̄ ꝙ cal'itas in.b.foret in triplo intē-
ſioꝛ q̄ꝫ iam eſt ⁊ foret per illā medietatē.b.cōſil'r ſic nūc:
tūc totū.b.foret eque intēſum cū.a.nā oēm intēſionē quā
habet.b.habet ꝑꝑ cal'itatē in 1ª medie^{te} calida extētē.dato
igit̄ ꝙ cal'itas foret in triplo intēſioꝛ in illa medie^{te} cōſil'r
extēſa ſicut iaꝫ eſt in triplo plus de iten^{te} ↄferret:⁊ ꝑ ↄñs
totū.b.foret in triplo intēſius q̄ꝫ nūc eſt:⁊.a.eſt in triplo in-
tēſius.b.ḡ intēſa cal'itate.b.ad triplū manēte friditate ſic
iam.b.foret eque intēſuꝫ cū.a. Signet̄ ḡ gradus ſūmus ca-
liditatis per.iiij.⁊ ſequit̄ ꝙ cal'itas.a.eſt vt tria : ⁊ cal'itas
b.ſil'iter.imaginoꝛ ḡ latitudinē cal'itatis īfinitā vltra gra-
dū iſtū ſūmuꝫ ſignatū per.iiij.ſic tñ ꝙ gradus vt.iiij.cōti-
nue erit gradus ſūmus.ponat̄ tūc ꝙ cal'itas in.b.intēdat̄
ad gradū triplū ⁊ maneat ↄtinue ↄſil'r extēſa ſicut iam:et
ſequit̄ ꝙ cū iaꝫ ſit caliditas.b.vt 3^a ꝙ in fine erit vt nouē
⁊ tūc per ṗus argūta erit.b.eque intēſuꝫ cū.a. Ponat̄ ḡ ꝙ
iam ſit 1° inſtās ⁊ ꝙ friditas tā per totū.a.q̄ꝫ per medieta-
tē.b.remittat̄ eodē gradu ad nō gradū in hora:⁊ eque ve-
lociter intēdat̄ cal'itas in.a.ſicut remittet̄ friditas ⁊ h̄ per
totū.a.⁊ nō inducat̄ aliqua cal'itas in.b.per remiſſionē ſue
friditatis:tunc in fine erit.a.ſūmū.vꝫ.ſub gradu ſignato ꝑ
iiij.⁊ tūc erit vna medietas.b.vt.ix.⁊ alia mā non q̄lifica-
ta.ḡ per cōem poſitionē dictaꝫ iten^o.b.coꝛrīdebit gradui
medio iter gradū medietatis calide ſignatū per.ix.⁊ non
gradū:⁊ gradus iſte medius eſt vt.iiij.⁊ medietas vnita-
tis que

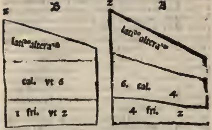
tis que ſe habet ad.iiij.in ꝓportione ſexgocta/ua: ⁊ tunc.b.
erit itẽſum gradu ſignato per.iiij.⁊ medietate vnitatis et
a gradu ſignato per.iiij.ḡ ⁊c̃.Et ꝙ.a.ↄtinue in duplo velo
cius intẽdet̃ arguo ſic.a.ↄtinue eodẽ gradu itẽdet̃ per to/
tuꝫ quo.b.per medietatẽ ceteris paribus:ḡ in duplo velo
cius ↄtinue intẽdet̃.a.q̃ꝫ.b.ḡ ſequit̃ ↄcluſio ⁊c̃.

3ᵃᵐ poſitionem. **Contra** 3ᵃᵐ poſitionẽ arguit̃ ſic.Primo ſignet̃ vnuꝫ
mixtũ in quo caliditas ſupra frigiditatẽ dñet̃
ꝙ ſit.a.⁊ intẽdat̃ caliditas ad ſũmuꝫ ⁊ remittat̃ friditas ad
nõ gradũ:tũc infinite remiſſa erit hec frigiditas imediate
ante finẽ extẽſa per idẽ ſubm per qđ extẽdet̃ caliditas.ḡ
īfinite modice denoiationẽ illius caliditatis īpediret:⁊ cuꝫ
in nulla ꝓportione minus q̃ꝫ gradu ſũmo denoiaret iᵃ ca/
liditas ſubm per qđ extẽdet̃ deducta friditate.ḡ nũc per
nihil minus īmediate ante finẽ tpis in quo erit ſũmũ de/
noiabit.a.ſubm per qđ iᵃ caliditas extẽdet̃:⁊ per ↄñs itẽſio
a.mixti gradui intẽſiori corrñdebit q̃ꝫ eſt gradus medius
tot⁹ latitudinis caliditatis.ↄñs tñ repugnat põni:eo ꝙ nul/
la qualitas per plus aliã excedit q̃ꝫ eſt tota latitudo illius
q̃litatis nec per tãtũ:⁊ omne mixtũ eſt in duplo remiſſiuꝫ
q̃ꝫ ſimplex equal'r diſtãs a non gradu:ſicut q̃litas dñans
excedit q̃litatẽ ſubdñantẽ.ḡ nullũ mixtũ põt eſſe ita intẽ/
ſum ſicut elemẽtũ exiſtẽs ſupra gradũ mediũ tot⁹ latitu/
dinis q̃litatis a qua ideꝫ mixtũ denoiat̃.ſequit̃ ḡ poſitio/
2ᵐ argᵐ. nẽ eẽ falſaꝫ.¶ Scḋo arguit̃ ↄtra iᵃᵐ ſic.Sit.a.vnũ mixtũ
in quo eſt ꝓportio dupla caliditatis ad frigiditatẽ per totũ:
⁊ ſit.b.hñs per vnã medietatẽ tãtaꝫ caliditatẽ ſicut habet
a.per totũ:⁊ in alia medietate habeat tantã frigiditatẽ ſi/
cut eſt frigiditas.a.⁊ ſit vtraq; medietas ſimplex.⁊ argui/
tur tũc ꝙ.b.nõ eſt eque intẽſum cuꝫ.a.q:.b.põt intẽdi an/
teq̃ꝫ ſit eque intẽſum cuꝫ.a.ḡ ⁊c̃.Añs pꝫ:q: ſi in medietatẽ
calidã.b.inducat̃ tãta frigiditas ſicut eſt in alia medieta/
te ſtãte caliditate:⁊ in medietateꝫ frigidã inducat̃ tãta cali/
ditas ſicut eſt in medietate calida ſtãte eius friditate:tũc
in fine eẽt.b.ↄſil'r oĩno diſpoſitũ cum.a.vt pꝫ:eo ꝙ tũc eẽt
ↄſilis caliditas per.a.ſicut per.b.⁊ etiã ↄſilis frigiditas:⁊
b.tũc intẽderet̃:ḡ.b.nũc eſt remiſſius.a.ↄñia tenet ⁊ añs
pꝫ:q: plus acgret.b.de caliditate q̃ꝫ de friditate.⁊ h̃ per
ptes equalẽ:ḡ ſequit̃ ꝙ.b.poſſet intẽdi anteq̃ꝫ eẽt eque in/
tẽſum cuꝫ.a.⁊ ſi ſic:igit̃ nũc.b.eſt remiſſius.a.ſequit̃ ergo
2ᵃᵐ pteꝫ põnis illius eẽ falſam.¶ Itẽ arguit̃ in iᵒ caſu ꝙ
poſitio eſt falſa.nã caliditas.b.que extẽdit̃ per medieta/
tẽ eius denoiaret illud ſub gradu medio inter iſtã calidita/
teꝫ ⁊ nõ gradũ.ſ.ſub iſto gradu ſub quo eſt iᵃ frigiditas.⁊
h̃ deducta frigiditate vt dꝫ:vbi tãgit̃ de denoiatione q̃li/
tatis extẽſe per ptes ſubti.⁊ iᵒ ↄcedũt ponentes illã poſi/
tionẽ.Cum ḡ frigiditas.b.ſit ſubdupla ad caliditatẽ eiuſ/
deꝫ:ſequit̃ ꝙ medietatẽ illius denoiationis ipediet cũ ex/
tẽdet̃ per medietatẽ ſubti:⁊ per ↄſequẽs faciet totuꝫ.b.de/
noiari gradu ſubduplo ad gradũ ſub quo erit iᵃ friditas:
⁊.b.eſt remiſſius.a.per ḣargũta:ḡ.a.corrñdet gradui intẽ
ſiori q̃ꝫ eſt gradus ſubduplus ad friditateꝫ:⁊ frigiditas.a.
eſt equalis exceſſui caliditatis.a.ſupra frigiditatẽ ſuã vt pꝫ:
eo ꝙ caliditas eſt dupla ad frigiditatẽ:⁊ per ↄñs corrñde
bit intẽſio.a.intẽſiori gradui q̃ꝫ eſt gradus ſubduplus ad
illũ exceſſum:vel q̃ꝫ ſimplex per tãtuꝫ diſtãs a nõ gradu
ꝑ q̃ꝫtũ caliditas excedit friditatẽ:⁊ ſi ſic/poſitio eſt falſa ⁊c̃.

4ᵃ pō **Sequitur** igit̃ poſitio 4ᵃ ponẽs ꝙ intẽſio mixti at/
tendat̃ ⁊c̃.pro qua arguit̃ ſic.Sit.a.tale
cuius caliditas eſt vt.iiij.⁊ friditas vt duo:tunc ſi iᵃ friditas
eẽt vt.iiij.ſicut eſt caliditas:tũc totã denoiationẽ eſſe calidi
īpediret:q: tũc tãta eẽt frigiditas ſicut caliditas ⁊ ecõtra.
Sꝫ nũc frigiditas eſt in duplo minor q̃ꝫ tũc eẽt:ḡ nũc au/
fert medietatẽ denoiationis caliditatis quã hẽt deducta
friditate:⁊ tũc eẽt vt.iiij.ḡ nũc eſt intẽſum vt duo:⁊ bina/
rius eſt exceſſus caliditatis ſupra friditateꝫ.ḡ poſitio vera.

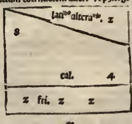
⁊ ↄſil'r eſt arguendũ de omni alio mixto ſicut de iſto.⁊ ſic
arguit̃ gñal'r de qualitate extẽſa per ſubm qđ denoiat il/
lo gradu eque intẽſo ſicut eſt iᵃ qualitas deducto ↄrio:vt
ꝓdicatũ eſt.Et ↄſil'r dꝫ de frigiditate:ḡ quãtuꝫ ſufficit frigi/
ditas denoiare/per tãtũ rõnabil'r impediet denoiationeꝫ
eẽ calidi.Sit ḡ in aliquo mixto frigiditas minor caliditate:
⁊ ſit.a.gradus ſub quo eſt caliditas ⁊.b.ḡ ſub quo eſt frigi/
ditas:tũc caliditas denoiaret ſubm ſuũ.a.gradu deducta
frigiditate:⁊.b.ipm ſufficit ipedire per latitudineꝫ corre/
ſpõdẽtẽ.b.gradui:q: tãto gradu ſufficeret ſubm ſuũ deno
minare.ḡ rõne iſtius friditatis auferet̃ de denoiatione ca/
liditatis tãta latitudo ſicut eſt a.b.gradu vſq; ad non gra/
duꝫ:aliqđ igit̃ remanet de denoiatione iſti⁹ caliditatis:⁊ ſe/
quit̃ ſoluꝫ ꝙ remanet illḋ per qđ.a.excedit.b.igit̃ intẽſio
b.mixti corrñdet ſimplici hñti tãtã latitudinẽ per quãtaꝫ
a.gradus excedit.b.⁊ iſta latitudo eſt equalis exceſſui ca/
liditatis ſupra friditatẽ:vt po'.ḡ ſequit̃ poſitio vi'r vera.
¶ Quo etiã ad pᵃᵐ ptẽ iſtius põnis argui poterit per hoc
ꝙ ꝓus ſuſtinet̃:ꝙ.ſ.oĩs qualitas eſt eque intẽſa ſicut aliq̃
eius pars:⁊ omne q̃lificatũ nõ admixtũ cum ſuo ↄrio eſt
eque intẽſum ſicut aliq̃ eius pars.Caliditas igit̃ tãtũ po' quã/
tũ aliq̃ eius pars:⁊ friditas tãtũ ipedit quãtũ aliqua eius
pars.igit̃ quãt⁹ eſt exceſſus maxime caliditatis ſupra maxi
mam frigiditatẽ:tãta erit intẽſio iſtius mixti.

Cõtra quã põnẽ ſic argᵘ.Ex iſta ſeq̃t̃ ꝙ vbicũq; intẽ/ 3 põnem.
dat̃ mixtũ per itenᵉᵐ clñti dñantis ⁊ remiſſio/
nẽ clñti ſubdñantis:ꝙ illḋ mixtũ in duplo veloci⁹ intẽdet̃
q̃ꝫ ſimpˣ in eo extñs:q: eq̃uelo' remittit̃ vna q̃litas ſicut alia
itẽdit̃.igit̃ in duplo veloci⁹ maiorat̃ exceſſus inter iſtas q̃li/
tates q̃ꝫ maioret̃ intẽſio q̃liᵗᵉˢ itẽſioris.ↄñia nota eſt:eo ꝙ
rõne itenᵐ q̃litatis dñantis eq̃uelo' maiorat̃ exceſſus ſicut
iᵃ q̃litas:poſito ꝙ iᵃ q̃litas ↄria ẽt non remittat̃.⁊ rõne re/
miſſionis q̃litatis eq̃l'r maiorat̃ exceſſus ſicut rõne itẽſionis
q̃litatis dñantis:q: iᵃ remiſſio illi itenᵃⁱ eſt eq̃lis.igit̃ pꝫ ꝙ
in duplo veloci⁹ maiorat̃ exceſſus dñant̃ ſupra ſubdñanſ
q̃ꝫ iᵃ dñans maioret̃:⁊ mixtũ eq̃uelo' itenᵉ ſicut iᵉ exceſſus.ḡ
ſeq̃t̃ ↄcl'o.¶ Cõtra quã arᵘ ſic.Ex eq̃li ꝓporᵉ itẽdit̃ ſimpˣ
⁊ mixtũ:eo ꝙ ex ꝓporᵉ ei⁹ agẽtis ad ſibi ↄrũ in iſto mixto.
igit̃ mot⁹ erũt eq̃les.ſ.itenᵒ mixti ⁊ itenᵒ ſimplicis dñantis.
ḡ ↄcl'o falſa ſeq̃ns ex poᵉ.igit̃ poſitio falſa.¶ Itẽ ex iᵃ ſeq 2ᵃ ↄcl'o
tur hec ↄ ꝙ.a.nũc eſt remiſſius.b.⁊ ad oẽꝫ pũctũ vni⁹ erit
ꝓceſſe eq̃lis itenᵒ ſicut ad pũctũ corrñdẽtẽ alteri⁹ ⁊ eq̃lis acq/
ſitio exceſſus:⁊ tñ in fine erũt eque itẽſa.¶ Itẽ ſeq̃t̃ ꝙ.a.
eſt eque itenᵐ cũ.b.⁊ ad oẽꝫ pũctũ.a.ↄtiᵉ erit eq̃lis itẽſio ⁊ 3ᵃ ↄcl'o
acq̃ſitio exceſſus ſicut ad pũctũ corrñdẽtẽ.b.⁊ in fine erit.a.
remiſſiuꝫ:⁊.b.ſũmũ.¶ Itẽ.a.eſt eque itenᵐ cũ.b.⁊ ad oẽm 4ᵃ
pũctũ.a.ↄtiᵉ erit remiſſior itenᵒ ⁊ minor acq̃ſitio exceſſus
q̃ꝫ ad pũctũ corrñdẽtẽ in.b.⁊ eq̃cito fient ſũma.¶ Itẽ ad 5ᵃ
oẽꝫ pũctũ.a.erit itenᵒ tardior q̃ꝫ ad pũctũ corrñdẽtẽ in.b.
⁊ in fine erit.a.itẽſius.b.⁊ iam eſt eque itenᵐ.¶ Sꝫ q̃libet
iſtaꝝ repugnet põni vi:q: ſi itenᵒ mixti attẽdat̃ penes ex/
ceſſuꝫ ⁊c̃.⁊ eq̃uelo' itẽdet̃ ſicut maiorat̃ exceſſus.ſi igit̃
eq̃uelo' maioret̃ exceſſus in.a.ſicut in.b.ſeq̃t̃.a.eq̃uelo' intẽ/
dit̃ cũ.b.igit̃ ſi nũc ſit remiſſi⁹ q̃ꝫ.b.ↄtiᵉ remanebit remiſ/
ſius.b.⁊ ſi nũc ſit eque itenᵐ cũ.b.ↄtiᵉ manebit eque itenᵐ
cum eo.⁊ ſi tardius itẽdat̃ ſemp erit remiſſius.igit̃ q̃libet
iſtaꝝ ↄñũ eſt falſa.¶ Pro 2ᵃ ↄñe ſic arguit̃.Ponat̃ ꝙ ca pbaᵒ 2ᵉ.
liditas ſũma ſignet̃ ꝓ octo gñā argᵐ:⁊ ſit.b.vniforme cum ↄñis.
caliditate vt ſex:⁊ friditate vt duo:⁊ ſit caliditas.a.vniformi/
ter difformis a 4.ᵒʳ vſq; ad ſex:⁊ friditas vniformiter dif/
formis a duob⁹ vſq; ad 4.ᵒʳ:⁊ ſit caliditas intẽſiᵒ.a.extenᵒ
cuꝫ friditate eiuſdẽ itẽſiſſima:⁊ itẽdat̃.b.mediãte latitu/
dine vniformiter difformi terminata non ad gᵐ mediãte
cuius extremo itẽſiori acq̃rat̃ vni extremo.b.caliditas vt
duo:⁊ remittat̃ friditas equal'r ⁊ extẽdat̃ iᵃ latitudo ↄſil'r
in.a.vſus extremũ itẽſius:vbi eſt maxima eius caliditas.

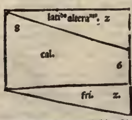


Quo poſito ſeq̄ꝫ q̄ .a.eſt remiſſius.b.q2 caliditas.a.eſt vt ſex:ꝛ friditas vt 4^{or}:ꝛ in.b.cal'itas eſt vt ſex:ꝛ friditas vt duo.Et q̄ ad oēs pūctū vnī^{us} erit eq̄lis acq̄ſitio exceſſus ſicꝫ ad pūctū corriſidentē alteri^{us} pꝫ:q2 eq̄lis iten^{o} eſt cal'itatis ꝛ remiſſio friditatis.Et q̄ in fine.a.erit eque itēſuꝫ cū.b.pꝫ: q2 tūc tota caliditas.a.erit vt octo:ꝛ caliditas.b.ſilr q2 eſt eque itēſuꝫ ſicꝫ eſt aliq̄ ei^{us} pars:ꝛ friditas.a.tūc erit vt duo: ꝛ friditas.b.ſilr q2 eque intēſa ſicꝫ aliq̄ ei^{us} pars.igiꝫ tūc erit eq̄lis exceſſus tot^{us} cal'itatis.a.ſupra friditatēꝫ ſuā ſicꝫ caliditas.b.ſupra ſuā friditatē:ꝛ p ↄñs.a.b.tūc erūt eque intēſa.ḡ ſeq̄ꝫ iſta z^{a} ↄ̄cło. ¶ Pro 3^{a} ponaꝫ vt p^{us}:ex quo igiꝫ in fine iſti^{us} t̄pis.a.ꝛ.b.erūt eque intēſa labatꝫ t̄ps ꝛ ſit nunc inſtās vlt^{m}.ſ.finis in quo cal'itas.b.ſit vniformiter diffor mis ab octo vſq3 ad ſex:ꝛ friditas.a.z^{bus} vſq3 ad non g^{m}:ꝛ cal'itas.a.ab.viij.vſq3 ad 4^{or} vniformiter difformis ꝛ frigiditas vniformis vt z^{o}:vt manifeſte pꝫ.ꝛ ponaꝫ q̄ per.a. extēdaꝫ ↄſil'is latitudo alterationis vt p^{us}:ꝛ ſit extre^{m} itēſius v̄ſus extre^{m} remiſſius:ꝛ in.b.ſilr:ꝛ duret p tātū t̄ps ſicꝫ p^{us} alteratio:ꝛ ſeq̄ꝫ q̄ in fine cal'itas.a. erit ſūma ſicut iaꝫ eſt:ꝛ ſua friditas erit vniformiter difformis a z^{bus} vſq3 ad nō g^{m}:vt pꝫ.igiꝫ.a.erit nunc remiſſum.Et ſeq̄ꝫ q̄.b.in fine erit ſūmuꝫ:q2 tūc ſua cal'itas erit vt.viij.nō admixta cum ſuo ↄ̄rio:ꝛ in p^{n}^{o} eſt eque iten^{m} cū.a.q2 cal'itas vtriuſq3 erat vt ſex ꝛ frigiditas vt z^{o}:ꝛ eque velox erit intēſio ad omnē pūctum corriſidētem alteri^{us} vt pꝫ.ergo ſequiꝫ ↄcluſio.

pba^{o} 3^{e}



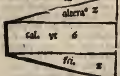
A
B



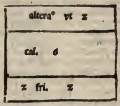
¶ Pro 4^{a} ↄ̄ne ſit caliditas.b.vt ſex:et friditas vt duo:et cal'itas.a. vt ſex:ꝛ friditas vnifor^{r} diffor^{is} a duobus vſq3 ad nō g^{m}:ꝛ itēdatur b.cal'itas mediā te vno ḡdu mediāte quo fiet ſūmū in hora:ꝛ intēdaꝫ.a. mediante latitudine vniformiter diffor mi terminata ad nō g^{m} ꝛ ad g^{m} extenſuꝫ p.b.ita q̄ non gradus alterationis ſit v̄ſus nō g^{m} friditatis: quo poſito ſequitur q̄ ad oēs pūctum.a. erit tardior acq̄ſitio exceſſus q̄ꝫ ad pūctum correſpōdentē in.b.vt ↄſtat:ꝛ in fine erit.a.ſummū:q2 habebit caliditatē ſummā nō admixtā cum ſuo ↄ̄rio:ꝛ.b.tūc p̊ erit ſummū.igiꝫ ſequiꝫ ↄcluſio.

pba^{o} 4^{e}

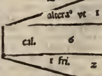
A



B



¶ Pro 5^{a} ↄ̄ne ponaꝫ de.b.vt po^{r} in p̊ caſu:ꝛ poneꝫ de.a.q̄ cal'itas ſit vt ſex:ꝛ friditas vnifor^{r} difformis a duob^{us} vſq3 ad vnū:et altereꝫ.a.lati^{ne} vnifor^{r} difformi terminata ad g^{m} ſubduplū ad g^{m} terminātē iſtā lati^{nē} alter^{nis} in.b.ꝛ termineꝫ ad nō g^{m} v̄ſus extremū:vbi eſt ſua friditas remiſſior. pba^{o} 5^{e}



Quo poſito ſeq̄ꝫ q̄.a. b.ſunt eque intēſa:q2 cali^{tas} eox:ꝛ ēt frigi^{tas} ſunt eque intēſe.ꝛ ad oēm pūctū.a.erit tardior intēſio q̄ꝫ ad pūctū corriſidentē in.b. q2 in duplo tardior itēſio cali^{tis} ꝛ remiſſio frigi^{tis} vt cōſtat p caſuꝫ:ꝛ i fine erūt eque itēſa:q2 cal'itas.b.tūc erit vt octo:ꝛ friditas vnifor^{r} difformis a duob^{us} vſq3 ad nō g^{m}.igiꝫ cal'itas.b.tūc excedet friditatē eiuſdē p ſex:ꝛ cal'itas in.a.tūc erit vt.vij.ꝛ ſua frigi^{tas} vniformis vt vnū:vt pꝫ p pōnē:igiꝫ.a.b.tūc erūt eque itēſa.igiꝫ ſi lati^{do} altera^{tio}nis extēſa p.a.terminaꝫ ad g^{m} itēſiorē q̄ꝫ nūc ſeq̄ꝫ q̄ in fine.a.eēt itēſi^{us}.b.q2 cal'itas ſua tūc eſſet ſupra g^{m} vt ſeptē:ꝛ friditas vt vnū:q2 eque intēſa ſicꝫ aliq̄ ei^{us} pars.ponaꝫ igiꝫ q̄ alteratio in.a.termieꝫ ad g^{m} in ſexg altero itēſiorē q̄ꝫ nūc.ꝛ ſeq̄ꝫ ↄ̄ manifeſte. ¶ Pro iſtis ↄcedēda eſt ↄ̄ p^{a}.ꝛ ↄcediꝫ q̄ ex eq̄li ppor^{ne} itēdiꝫ ſimp^{r} ſicut mixtū:q2 ex ppor^{ne} agētis ad el'ntū ſubdñans:ꝛ t̄n tota itēſio mixti corriſidebit gradui itēſiori q̄ꝫ iten^{o} ſimplicis ꝛ ēt maiori.vñ mot^{us} p̊n^{r} itēt^{us} eſt inductio for̄e ppē ꝛ expulſio for^{e} ↄ̄rie:ꝛ ex remotiōe vni^{us} ꝛ inductiōe alteri^{us}:ſeq̄ꝫ iten^{o} tot^{us} mixti.ꝛ ideo iſta itēſio mixti nō eſt p̊n^{r} itēta ab agēte: pp q̊ nō eſt incōueniēs q̄ ab eadē ppor^{ne} agētis ad paſſuꝫ pueniāt mot^{us} ineq̄les:dū t̄n vnus ex p̊ itēto pueniat ꝛ ſit p ſe ꝛ ali^{us} p accñs:ſicꝫ pꝫ de circūuolutiōe rote:cui^{us} vna pars moueꝫ de neċitate alia pte veloci^{us}:ꝛ t̄n idē eſt agens oīuꝫ motuū.ſ.vni^{us} ptis ꝛ alteri^{us} ptis pductiuū:ꝛ ſic nō pcedit arg^{m}. ¶ Ad z^{as} ↄ̄nē ↄcediꝫ:ꝛ ad arg^{m} in oppo^{m} fcm̄ q̄ſi ſic ar^{r}.iten^{o} mixti attēdiꝫ penes exceſſuꝫ:ḡ ſi ad oēs pūctū a.eq̄uelo^{r} maioraꝫ exceſſus ſicꝫ ad pūctū corriſidētē.b.ſeq̄ꝫ q̄ p̊ caſe eq̄uelo^{r} itēdeꝫ.a.ſic.b.negaꝫ ↄñā:q2 ab^{te} nō valet talis ↄñia:ſꝫ cū tali me^{o} ad oēs pūctū.a.eſt eq̄lis acq̄ſitio exceſſus ſupra el'ntū ſubdñans ſicut ad pūctū corriſidētē in.b.ꝛ

Nota
Non incōueniens q̄ ab eadem ppor^{ne} motus proueniāt ineq̄les.

in.b.⁊ talis acquiſitio exceſſus defuit ad acquiſitioēꝫ itenſionis in tali mixto.g. equuelociter itēdet ſicut.b.quod nō eſt verū in ꝓpoſito:quia remiſſio frigiditatis in.b.ad pūcta eius intrinſeca nihil faciet ad totius frigiditatis remiſſionē iuxta pōnē illā recitatā. ſcilicet quod ois q̄litas eſt eque itēſa ſicut aliq̄ eius pars.⁊ ideo ad itēſionē totius.b.ſolū iuuat itenſio caliditatis:ſꝫ ad itēſionē.a.iuuat tā intēſio caliditatis q̄ē remiſſio frigiditatis:quia tota caliditas carbe⁊ maiorat:⁊ ēt tota frigiditas in.a.etiaꝫ remittet.⁊ ħ equuelociter ſicut caliditas.b.maiorat.⁊ ideo in duplo tardius intēdet.b.q̄ꝫ.a.⁊ ſic nō pcedit argumentum. Cōſiliter ſoluit argumentum ꝯ 3ᵃᵐ ꝯneꝫ:quia in caſu ibidē poſito tota frigiditas.a.remittet ad nō gradum:⁊ tota frigiditas.b. nō remittet: vt pdictū eſt. ¶ Ité 4ᵃ ꝯclo eſt ꝯcedēda:quia in caſu ibidē poſito tota frigiditas.a.terminat ad duo ſub quo gradu eſt frigiditas in.b.ideo iuxta pōnē recitatā tota frigiditas.a.eſt eq̄lis toti frigiditati.b.⁊ ad extremum illud vbi eſt maxima frigiditas a.equaliter ꝯtinue remittet frigiditas ſicut ꝑ totū.b.⁊ ideo lꝫ ad pūcta itrinſeca velocius acquirat exceſſus caliditatis ſupra frigiditatē in.b.q̄ꝫ in.a.ad extremum:tū vbi eſt maxima eius frigiditas equuelociter acquiret iſte exceſſus in.a.ſicut in.b.⁊ ſic ēt totius caliditatis.a.ſupra totā eius frigiditatē caliditas equuelociter acquiret iſte exceſſus ſicut totius caliditatis b.ſupra frigiditatem:⁊ ſic ſoluit argumentum in oppoſitum ſi quod fiebat. ¶ 5ᵃ ꝯclo ꝯcedit:lꝫ.n.ad oēꝫ pūctū.b.velocius acquirat exceſſus ⁊c. tū tū remiſſio frigiditatis ad pūcta.b.nihil ad totius intēſionē faciet vt dē in ꝯne 2ᵃ:tū tū remiſſio frigiditatis in.a.faciet vt duo ⁊c.quia in.a.ꝯtinue eſt remiſſio maxime eius frigiditatis:⁊ ſic q̄uis tardior ſit acquiſitio exceſſus in.a.q̄ꝫ in.b.tota tū intēſio exceſſus in.a.ad totius intēſionē faciet:⁊ ſic non faciet in.b. vbi erit maxima acquiſitio talis exceſſus. ¶ Oēs iſte cōcedēde ſunt imaginarie ⁊ negent de facto.naꝫ in oībus caſibus

6ᵃ ꝯclo iſtis ponit cū eq̄li caliditate ineq̄les frigiditates ꝯtēdi. ¶ Ité ex illa pōne ſeq̄ quod.a.b.ſunt equaliter calida:quia eorū caliditates ſunt eq̄les:⁊ tū ad oēꝫ pūctū.b.eſt maior exceſſus caliditatis ſupra frigiditatē q̄ꝫ ad aliquē pūctū in.a.vel ſeq̄ quod.b.eſt itēſius.a.⁊ tū in nulla ꝓportione eſt itēſius. Utraq̄ꝫ illaꝝ ꝯnū eſt negāda.Prima.n.repugnat pōni.Si eiꝫ.a.b.ſunt eque itēſa ⁊ ſue caliditates ſimiliter:ſeq̄ quod tota frigiditas.a.eſt eq̄lis toti frigiditati.b.capiat igit pūctus in.b.vbi eſt maxima eius caliditas:vel tūc ibi eſt maxima eius frigiditas:vel nō.Si ſic:igit nō ꝑ totū.b. eſt maior exceſſus caliditatis ſupra frigiditatē q̄ꝫ ꝑ totūꝫ.a.vel ad aliquē pūctū.a.Si vero nō ſit ibi maxima eius frigiditas capiat pūctus ad quē eſt maxima eius frigiditas:tūc ſi ibi ſit maxima eius caliditas:ſeq̄ quod ad illū nō ſit maior exceſſus caliditatis ſupra frigiditatē q̄ꝫ ad aliquē pūctū.a.⁊ ſi ibideꝫ ſit minor caliditas q̄ꝫ maxima:ita quod maxima caliditas nō ſit ad illū punctū vbi eſt maxima frigiditas.a.ſeq̄ nō ad illū pūctū vbi eſt maxima frigiditas.b.eē maiorē exceſſuꝫ q̄ꝫ ad aliquē pūctū in.a.⁊ ꝑ ꝯñs nō ad oēꝫ pūctū ⁊c.g. ſeq̄ ꝯnē illā repugnare pōni:⁊ alia pars illius diſiūctiue eſt oīno ipoſſibilis:ex quo vtrūq̄ꝫ illoꝝ.ſ. a.⁊.b.eſt finite itenſum. Et quod 1ᵃ ꝯclo ſequat ex pōne arguitur ſic. Ponat quod.a.ſit vnū vniformiter calidum ꝑ totū mixtū ex caliditate ⁊ frigiditate:⁊ ſit.c.vnū corpus columnare ⁊ capio corpus itercepiū iter duas lineas circūgyrātes oēs ptes ꝓportionales.c.quod ſit.b.⁊ hēat.b.tātā caliditateꝫ ꝑ totū vniformē ſicut hꝫ.a.⁊ ſit frigiditas b.difformis terminata in extremo remiſſiori ad gradum remiſſiorē q̄ꝫ eſt gradus frigiditatis.a.⁊ in alio extremo ad gradum frigiditatis.a.⁊ ponat quod in extremo finito.b.ſit extremum remiſſiꝰ ſue frigiditatis alio extremo in infinitum ꝓcedēte:quo poſito ſeq̄ .a.b.eē eque itēſa: quia caliditates ſunt eque itēſe.ſimiliter frigiditates iuxta illā pōnē:eo quod ois q̄litas eſt eque itēſa ſicut aliq̄ pars eiuſdē. Et quod ad oēꝫ pūctū.b.ſit maior exceſſus caliditatis ſupra frigiditatē q̄ꝫ ad aliquē pūctū.a.pꝫ:eo quod ad oēꝫ pūctū.b.eſt tāta caliditas ſicut ad aliquē pūctū.a.⁊ minor frigiditas:quia ad oēꝫ pūctū.b.eſt frigiditas citra extremum itēſius totius frigiditatis:vt ponit in caſu.igit

7ᵃ ꝯclo ſeq̄ ꝯclo. ¶ Ité ſeq̄ ex pōne quod vbicūq̄ꝫ ſunt aliq̄ duo ⁊ ad oēꝫ pūctū vnius eſt tātus exceſſus caliditatis ſupra frigiditatē ſicut ad pūctū correſpondētē alterius vel ad aliquē pūctū alterius. Ꝙ iſta duo ſint eque itēſa:⁊ quod ſeq̄tur ſatis appet ex pōne. ⁊ quod nō ſit vera arguitur ſic.Sit.a.vt prius ⁊.b.talis pars corporea vt prius:tū quod prima pedale.b.ſit ꝯſimiliter diſpoſitū in toto ſicut.a. ⁊ ſit frigiditas ſcḋi pedalis.b.in duplo itēſior q̄ꝫ in primo pedali:⁊ in 3ᵒ pedali in duplo itēſior q̄ꝫ in 2ᵒ:⁊ ſic in infinitum:maneat tū ad oēꝫ pūctū vnius tātus exceſſus ſicut ad aliquē pūctū alterius:⁊ in oī pedali ſicut in primo.quo poſito ſeq̄ quod ad oem pūctū.b.ſit tātus exceſſus ſicut ad aliquē pūctū.a. Et quod 1ᵃ nō ſit equaliter calida pꝫ:quia.b.nō eſt calidum eodē gradu cū.a.cū frigiditas.b.ſit infinita ⁊ caliditas ꝯſimiliter:⁊ nulla caliditas pōt excedē frigiditatē infinitā. ¶ Ideo forte pro iſtis duabus ꝯnibus dī quod.b.terminat ſcḋm vtrūq̄ꝫ extremum:⁊ ſic ad pūctū terminātē.b.in extremo vbi eſt maxima eius frigiditas nō eſt maior exceſſus ⁊c.vt arguitur in ꝯne 6ᵃ:nec ad iſtū pūctū in ꝯne 7ᵃ eſt tātus exceſſus ſicut in.a.quia ibi nullus eſt exceſſus. ¶ Cōtra ħ arguitur ſic. Nō includit ꝯdictiōeꝫ.b.rectificari nullā q̄ntitatē acquirēdo vt cōſtat:⁊ ſi.b.rectificet includit ꝯdictionē ipm ſcḋm vtrūq̄ꝫ eius extremum terminari:quia tūc nō eēt ifinite lōgū ⁊ eēt ifinite lōgum ſicut nūc eſt:quia nullā q̄ntitatē acquireret ſeu deꝑderet. igit nō eſt verū.b.ſcḋm vtrūq̄ꝫ eius extremū nūc terminari. ¶ Pro iſtis ꝯcedēda eſt 6ᵃ ꝯclo.Si tū.b.ſcḋm vtrūq̄ꝫ eius extremum terminaret ita quod eēt finitū optime ſeq̄ illā ꝯnem pōni repugnare:quia tunc ſeq̄ quod vbi eēt maxima frigiditas.b. quod ibi nō eēt maior exceſſus caliditatis.b.ſupra frigiditatē q̄ꝫ ad aliquē pūctū.a.ſicut ꝓbat argumentum ibi factū:quia tū nullus eſt pūctus vbi eſt maxima eius frigiditas.ideo argumentum nō ꝓcedit.Similiter dicimus ad 7ᵃᵐ ꝯnē ipaꝫ negādo:tū ſi aliq̄s pūctus eēt vltimus vbi eſt maxima frigiditas:bñ ſeq̄ret ꝯclo. ¶ Seq̄tur ēt ex iſta pōne quod prima pars ꝓportionalis eſt aliqualiter intēſa:⁊ 2ᵃ in duplo itēſior:⁊ ſic in infinitum:⁊ tū totū.a.nō eſt itēſum vt ſit prima pars ꝓportionalis aliqualiter calida:⁊ ſit ibi ꝓportio dupla caliditatis ad frigiditatē:⁊ in 2ᵃ pte ꝓportionali ſit caliditas in duplo itēſior q̄ꝫ in prima ⁊ in 3ᵃ in duplo itēſior q̄ꝫ in 2ᵃ:⁊ ſic in infinitum.⁊ ꝓportionabiliter ſicut in aliq̄ pte caliditas eſt intēſior ita ſit frigiditas intēſior:ita quod in omni pte ꝓportionali poſteriori ſit in duplo intēſior caliditas q̄ꝫ in pte imediate pcedēte:⁊ ſic etiā ſit de frigiditate. Et pꝫ quod 2ᵃ pars ꝓportionalis eſt in duplo calidior prima:quia caliditas ſcḋe ptis eſt in duplo intēſior q̄ꝫ caliditas prime ptis:⁊ frigiditas ſua eſt in duplo intēſior q̄ꝫ frigiditas prime:igit exceſſus caliditatis ſcḋe ptis ꝓportionalis ſupra ſuā frigiditatē eſt in duplo intēſior q̄ꝫ exceſſus caliditatis ſupra frigiditatē prime ptis ꝓportionalis:eo quod inter terminos duplos ꝓportionales eſt in duplo maior exceſſus q̄ꝫ iter terminos ſubduplos cōſimiliter ꝓportionales vt cōſtat intuēti:⁊ ſic erit 3ᵃ pars ꝓportionalis in duplo intēſior 2ᵃ: ⁊ ſic in infinitum.igit ſeq̄ ꝯclo:quia tā tota caliditas q̄ꝫ etiā frigiditas eſt ifinita.igit ꝯcedēda eſt ꝯcluſio imaginādo quod cū q̄libet intēſiori caliditate extendat frigiditas intēſior ⁊c. Multa alia ſophiſmata poſſunt fieri que cōſiderato quantum acquiſitio exceſſus ad puncta intrinſeca ad totius intēſionem conferat ſatis faciliter ſoluuntur.

Sequitur 2ᵃ pars quarte pōnis ponēs quod intēſio mixti ſeq̄ exceſſuꝫ caliditatis ſupra frigiditatē nō ſimpliciter:ſed capto gradu cui correſponderet denoīatio totius ſubiecti:ſi per ſe eēt q̄litas illa ⁊ gradu quo denoīaret alia q̄litas ideꝫ ſubiectum ſi ipſa eēt per ſe poſita:⁊ tūc penes exceſſum vnius talis gradus ſupra aliū attēdit totius mixti intēſio.ſi.n.vna qualitas ꝑ ſe tātuꝫ denoīaret ſicut alia:totā denoīatiōeꝫ alterius q̄litatis ipediret.Si igit talis gradus denoīationis vnius ſit ſubduplus ad aliū:medietatē talis denoīatiōis ipediret:⁊ ſic ꝓportionabiliter de alijs ptibus iſtius denoīatiōis. ¶ Cōtra opionē iſtā pñt reduci prima ꝯclo ⁊ 6ᵃ ⁊ 7ᵃ ⁊ 8ᵃ reducte ꝯtra pōnem primā. Pro prima ponat caſus ibi poſitus ⁊ ſoluat vt prius. Ité pro 6ᵃ ⁊ 7ᵃ ꝯnibus ponat ca

Rñ

Cōtra

5ᵃ ꝯplo.

8ᵃ ꝯclo

Regula ꝓportioné.

2ᵃ pars 4ᵉ pōnis.

3 pōnem.

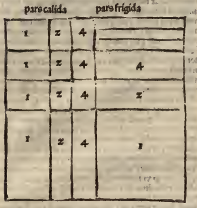
ſus ibi poſit⁹ φ ſit.b.corpus infinitū:q̄ȝ iuxta hāc pōnem
tota frigiditas corrñdebit gradui in infiᵐ ꝓcedēti.τ ideo
tota frigiditas.b.erit tāta ſicut tota caliditas.a.τ ideo tot⁹
exceſſus caliditatis.b.ſupra ſuā frigiditatē ꝫ erit ꝑciſe eq̄lis
toti exceſſui calitatis.a.ſupra ſuā frigiditatē: τ ſic tota in-
tenſio.b.corrñdebit toti intēſioni.a.τ ideo ꝯcedēda eſt 6ª
ꝯclo.τ ſoluit argᵐ in oppoᵐ vt patꝫ.¶ Silr̄ 7ª ꝯcluſio eſt
negāda:eo φ tota caliditas.b.eſt īfinita τ etiā frigiditas.ſi
tñ eēt pūct⁹ vltimus hñs maximā calitatē ꝫ optime vale-
ret argᵐ:ſed ſic nō eſt hic vt ꝑdicſ. ¶ Pro 8ª ꝯne ponaſ
caſus ꝑ poſit⁹:τ ꝯcediſ ꝯclo.Itē ex hac pōne ſeqꝭ φ aliqđ
eſt īfinitū:cuius ſolū pars finita eſt calida:τ totū reſiduū
eſt frigidū:τ tñ totū eſt calidū. Silr̄ aliqua ſunt duo ꝯſilr̄
diſpoſita:quoꝝ vnū eſt calidū τ aliud frigidū.Silr̄ aliqđ
eſt frigidū:cui⁹ quelibet pars terminata ad extremū vnū
eſt īfinite calida.¶ Lōtra pᵐ ſic argꝭ.Si infinita pars ſit
frida:igiſ tñ tolleret iª fridītas ſicut aliq̄ calitas īfinita po
terit toti ꝯferre extēſa per ptē finitā:q̄ȝ in īfiᵐ plus īpedit
φ̄ aliq̄ caliditas finita pōt ꝯferre extenſa per ptē finitā.g̃
ſi talis caliditas īfinita vel finita ſit extēſa per ptē finitaꝫ
totū ab iª calitate nō poterit denoīari ꝯtrite fridītate ali-
quāta per totā ptē reſiduā.¶ Silr̄ arguiſ ꝯtra 2ᵃᵐ ꝯneꝫ.
Si.n.aliq̄ ſint duo ꝯſilr̄ diſpoſita:qua rōne vnū eſt calm:
eadē rōne τ reliquū:q̄ȝ nulla pōt poni diuerſitas īter iª.τ
ſi vnū ſit frigidū reliquū eſt frigidū.Si igiſ vnū ſit fridū
τ reliquū ſit calidū:ſeqꝭ φ vtrūq̄ȝ eſt calidū τ frigidū.ꝯñs
eſt īpoſſibile:g̃ τ añs. ¶ Itē cōtra 3ᵐ.Si.n.quelibet pars
terminata ad vnū extremū ſit infinite calida totū nō po-
terit ɋ̄uis mō a frigiditate denoīari:q̄ȝ tñ tolleret iſta ca
liditas quātū pōt alia frigiditas denoīare.igiſ ꝯclo falſa.
p° 5 de-
ducit. ¶ Or tñ ille ꝯnes ſequanſ arguiſ ſic. Sit.a.tale cui⁹ vna
medietas ſit ſūme calida ꝯtinue τ alia remiſſe frigida.vꝫ
in gradu medio:τ.b.vnū aliud cuius vna medietas ſit fri
gida in gradu medio:τ alia cal̄a in gradu remiſſ̄:ꝯtūima-
ginē tūc latitudinē caliditatis eē infinitā.τ rarefiant me-
dietates frigide in īfinitū illoꝝ.ſ.a.b.τ intēdanſ medieta-
tes calide:ita φ.a.b.nec intēdanſ nec remittanſ : ſed ma-
neāt ꝯtinue eque intēſa ſicut nūc ſunt ꝑciſe φ ſatis eſt ima-
ginabile poſita latitudine calitatis īfinita:eo φ tantū pōt
acqri de intēſione caliditatis per intēſionē calitatis quā-
tū auferreſ per rarefactionē ptis frigide:tunc in fine erit
a.calidū ſicut nūc eſt:τ tūc erit ſolū finita pars.τ ſm ſe to-
tā calidā τ totū reſiduū frigidū.g̃ ſequiſ ꝯcluſio pª. ¶ Et
2ª 2ª ꝯcluſio ſequiſ in eodē caſu:q̄ȝ.a.tūc erit calidū τ.b.fri-
gidū ſicut nūc eſt per caſum:τ tūc erūt.a.b.cōſilr̄ diſpoſi-
ta.naꝫ equales ptes.a.b.tūc erūt ſm ſe totū calide:poſito
φ in pñ⁹ fuerīt.a.b.equalia:τ ille ptes tūc erūt eque intē-
ſe calide:q̄ȝ īfinite calide:τ alie ptes.a.b.tūc erūt equales
ſub eodē gradu fridītatis:q̄ȝ iſte ptes erūt īfinite ɋ̄titati-
ue:igiſ tūc.a.b.erūt ꝯſilr̄ diſpoſita.igiſ τc̄.Ex ħ ſequiſ φ
nō ɋ̄libet infinitū eſt eque intēſum cū gradu in infinitū
ꝓcedēte.¶ Tertia ꝯcluſio arguiſ in eodē caſu.Nā queli-
3ª bet pars.b.terminata ad extremū eius finitū/erit infinite
calida in fine:q̄ȝ quelibꝫ talis pars eſt finita finite hñs de
fridītate τ infiᵐ de calitate:τ per ꝑdicta caliditas infinita
per ptē cuiuſlibet finiti extēſaꝫ deducto ꝯrio infinite totū
denoīaret.cū igiſ īpedimētū ſit totū finitū īfinite denoia-
bit.vel ſic tūc eēt cuiuſlibet talis ptis exceſſus calitatis ſu
pra fridītatē infinit⁹:q̄ȝ calitas infinita τ fridītas ſolūꝫ fi-
nita per ptē finitaꝫ extēſam:igiſ tūc erit ɋ̄libet talis pars
finite calida τ totū tūc erit nō calidū:vt argutū eſt:q̄ȝ tūc
Rñſio totū erit fridū:vt apparet in caſu.¶ Ideo forte dī ꝯcedē-
do ꝯnes de imaginatiōe:τ cā eſt φ pars finita ſub gᵘ fini-
to tñtū addit de iten⁵ reª tot⁹ īfiniti in caſu ſicſ pars īfinita
ſub gradu finito τ in caſu plus.τ ideo ſm imaginationem

ꝯnes ſunt ꝯcedēde in caſu:tñ vbi pars iª finita eſt calida
gradu ſolū finito τ reſiduū fridū totū tūc erit fridū illo gᵘ
ſub quo eſt pars illa infiᵗᵃ frida ꝑ totū vel iº gradu ad quē
terminaſ in extremo īfinito ſi ſit diffozme.¶ Cōtra iſtaꝫ Lōtra
rñſionē arguiſ.īpoſſe eſt ponere caſum aliquē ex q̄ calitas
in.a.tollit totā denoīatiōeꝫ fridītatis:τ calitas.b.eſt ꝑciſe
tāta ſicſ calitas in.a.τ fridītas.b.eſt ꝑciſe tanta ſicſ fridītas
in.a.gn caliditas in.b.tollat totā denoīatiōeꝫ ei⁹ fridītatis
in cōpatione ad totū.b.qualr̄cūq̄ȝ quis dicat ſe poſſe ħ ima
ginari:q̄ȝ iªᵐ imaginatiōeꝫ īpoſſe eſt ꝓbare.¶ Itē calitas 2
in.a.nō ſufficit ſub aliq̄ gradu denoīare.a.deducta ſua fri-
giditate:vt dictū eſt:vbi tāgiſ qualr̄ extēſa q̄litas per ptē
ſubiecti totūꝫ illud ſubm denoīat:q̄ȝ dato iº ſeqꝭ φ forēt duo
ꝯſilr̄ diſpoſita:q̄rū vnū foret alio calidi⁹ vt ibi argutū eſt.
ꝯñs falſuꝫ.ſeqꝭ igiſ φ iª caliditas.a.deducta ſua fridītate
totū.a.nō ſufficeret denoīare:τ hec fridītas aliq̄ gdu ſuffi
ceret denoīare iº deducta iª calitate.igiſ hec caliditas per
nullā latitudinē ſufficit denoīatōeꝫ illi⁹ fridītatis īpedire.
ꝯñā iuxta illā eādē pōneꝫ pꝫ:q̄ȝ ponit φ denoīatio mixti
attēdiſ penes acceſſum denoīatiōis illi⁹ q̄litatis:ſi ꝑ ſe eēt
ad denoīatiōeꝫ alteri⁹ ꝑ ſe exñtis.tenet g̃ ꝯñā iuxta pōnē.
τ añs eſt ꝓbatū.igiſ ꝯñs.¶ Cū igiſ hec fridītas gñā argᵗⁱ
vniformis totūꝫ ſubm denoīaret gradu ſuo ſi per ſe eēt:
igiſ nō obſtāte iª calitate infiᵗᵃ ꝑ ptē illā finitā.a.extēſam
totū.a.erit frigidū.igiſ rñſio iª falſa τ repugnās pōni iſti.
¶ Ideo aliter τ ſecuri⁹ rñdeſ negādo duas pᵃˢ ꝯnes:τ cō- 2ª ꝯpuis.
cedēdo 3ᵃᵐ:τ ad caſum admittiſ totū vſq̄ȝ ibi:cū poniſ φ
medieᵗᵉˢ fride rarefiāt in infiᵐ:τ medietates calide intēdā
tur:ſic φ ꝯtiᵉ maneat vtrūq̄ȝ iſtoꝝ eque intenᵐ ſicſ nūc eſt.
τ dī φ ħ eſt poſſibile de oī inſtāti citra finē ſꝫ nō pro fine:
q̄ȝ iſta infiᵗᵃ acq̄ſitio ɋ̄titatis īmediate ante finē ſubito to
tā denoīatiōeꝫ iſti⁹ calidi tolleſ:vt ꝑdictū eſt.τ ideo in ca-
ſu iſto ſeqꝭ φ in fine tā.a.φ̄ etiā.b.erit fridūꝫ iº gradu quo
pars īfinita erit frida:eo φ calitas iº denoīationē frigidi
nō ſufficiet īpedire:τ ſic admittiſ φ pro ɋ̄cūq̄ȝ inſtāti ante
finē erit.a.eque itenᵐ ſicſ nūc eſt:τ dī φ īmediate ante finē
totā denoīatiōeꝫ eē calidi deꝑdet τ acq̄ret tñā denoīatio-
nē fridi per quātū iſta fridītas ſufficit denoīare iſtud totū
iª calitate deducta.τ admittiſ ſilr̄ φ pro oī inſtāti citra fi-
nē erit.b.eque intenᵐ ſicſ nūc eſt:τ īmediate ante finē rōne
iſti⁹ rarefactiōis ſubito intēdeſ a gradu quo nūc denoīaſ
vſq̄ȝ ad gᵐ iſti⁹ frigiᵗᵃᵗⁱˢ:τ ita nec pª nec 2ª ꝯclo ſeqꝭ que ſunt
5ª τ 6ª ꝯtra hāc pōnem.¶ Sed 3ª iſtaꝝ eſt ꝯcedēda ſicut
argᵐ ſatis ꝓbat capto tali infinito:q̄ȝ totū eſt frigidū:vt dī
ctū eſt.τ tñ quelibet pars terminata ad extremū finitum
eſt īfinite calida.τ negaſ ꝯñā:ɋ̄libet talis pars eſt infinite
calida.igiſ nulla fridītas poterit totū denoīare.ſꝫ bñ ſeq̄-
reſ ſi totū eēt finitū.vñ ꝯnes iᵉ due prime nō ſunt oīo in
imaginabiles niſi ponēdo vnū infiᵐ alio īfinito maiu⁹:τ ſꝫ
ħ ponaſ qđ eſt irrōnabile non poterit aſſignari ratio pro
iª 6ª ꝯᵉ.¶ Aliqđ eſt calm vniforᵉ ꝑ totū qđ ꝑ ſolā rarefa- 8ª ꝯclo
ctionē fiet nō calm vel īfinite remiſſe calm. ¶ Aliq̄ ſunt 9ª ꝯclo
vniforᵉ τ eque itenᵃ:q̄rū vnū per rarefactionē pōt remitti
ad nō gᵐ:τ aliud nō pōt remitti ad aliquē gᵐ ꝑ aliquā ra-
refactionē.¶ Lōtra pᵃˢ ſic argꝭ.Si totū ſit vniforᵉ calidū
ɋ̄tūcūq̄ȝ rarefiat ſemꝑ manebit vniforᵉ calidū:q̄ȝ ad oēꝫ
pūctū remanebit ꝯſilis qualitas ſicut eſt ꝑhabita.Item ſi
duo ſint vniformia nō eſt maior ratio q̄re vnū pōt remit-
ti ꝑ rarefactionē magis φ̄ aliud.igiſ vtraq̄ȝ ꝯclo eſt falſa.
¶ Pro pᵃ ꝯne argꝭ ſic.Sit.a.ſubm finitū ꝑ qđ extēdaſ la
titudo fridītatis īfinita:corrñdeat tñ gradui ſolū finito:vt
ſic extēdiſ.τ ſit ad oēm pūctū gradus intēſior calitatis φ̄
fridītatis:ita φ ſit vniᵘˢ exceſſus calitatis ſupra fridītateꝫ
per.a.ita φ totū ſit vniforᵉ calidū τ rarefiat extremo vbi
fridītas eſt remiſſior gefcēte in īfiᵐ:ita φ iſta fridītas cor-
rñdebit

rńdebit gradui infinito rõne extenſionis facte per rarefa-
ctionē vt ꝓbaꝛ eē poſſe vbi tangiꝛ de denoiationibꝰ ſim-
pliciū corpoꝝ in ꝯe zª: nūc ꝑ iſtā rarefactionē3.a. vniꝰ caliꝰ
remittet ad nō gᵐ: q2 hēbit in fine fridītatē infinitā ꝑ ptē
infinitā qua nulla caliditas poterit plus denoiare. ḡ ſequiꝛ
iſta ꝯclō octaua. ❡ Pro nona capiaꝛ vnū vniꝰ ꝑ totum 1ᵒ
gᵘ vniꝰ caliditatis cui corrńdet tota intenſio.a.mixti qđ vniꝰ
ſit.b. ⁊ ſeqꝛ ꝙ.a.b. ſunt vniformia ⁊ eque intēſa: ⁊.a. pōt re
mitti ad nō gᵐ per rarefactionē3 vt argutū eſt: ⁊.b. non pōt
aliqñ remitti ꝑ rarefactionē3: q2 ſua q̄litas eſt oīo vniforᵐ.
igiꝛ ꝑ rarefactionē3 remitti nō poterit quouis mō: ideo ſe-
quitur ꝯnes q̄ de imaginatiōe ſunt ꝯcedēde. ❡ Et ad arᵐ
in oppᵐ pme ꝯnis ꝯcediꝛ ad oēm punctū in.a. manere eā-
de3 q̄litatē que nūc eſt ibi. ⁊ negaꝛ ꝯña qñ ꝯcludiꝛ ꝙ non
in infiᵐ remittet vel ſi melius ſic arꝛ. Ad oēm punctū mane-
bit ꝯtinue eadē caliditas ⁊ fridītas que nunc ſunt ibi ex quo
erit ſolū3 rarefactio ſubiecti. igiꝛ ad oēm punctū ꝯtinue ma-
nebit ide3 vel eq̄lis exceſſus ſicut nūc eſt ad eūdē: ⁊ ꝑ ꝯñs
ſi nūc ſit vniꝰ cal3 ꝯtinue ita erit. negeꝛ ꝯña: q2 l3 ad oēm
punctū erit eq̄lis exceſſus ſicut nūc eſt ad eūdē: ⁊ fridītas
eq̄lis rōne tñ difformis rarefactiōis īfinito gradui tota fri
giditas caᵗᵇᵉᶜ corrńdebit: ⁊ ideo totū tūc nō erit calīm: q2
nulla caliditas pōt plus denoiare ꝙ̄ iſta fridītas tota tollet:
⁊ ideo nō ꝓcedit argᵐ. ❡ Ad argᵐ ꝯ ꝯne3 nonā qñ arꝛ ſic.
a.b. ſunt eque intēſa. ḡ nō eſt maior rō ⁊c. negaꝛ ꝯña: quia
vniꝰ caliditas eſt tota difformis ⁊ ēt tota fridītas que per di-
uerſa3 rarefactionē gradibꝰ diuerſis facile poterit corrń-
dere ⁊ in alio eſt tota caliditas vniformis que ſi in infiᵐ ra-
refieret nunq̄3 pōt gradui intenſ corrńdere nec remiſſiori
vt ſatis p3: q2 ſemꝑ in oībꝰ ptibꝰ foret eq̄lis caliditas ſic nūc
eſt in aliq̄ pte: que diuerſitas pro ſolōne ſufficiat argumēti.
10ª ꝯ ❡ A. nūc eſt cal3 qđ nec intēdeꝛ nec remitteꝛ: ⁊ tñ in fine
11ª ꝯ erit nō cal3. ❡ Silr.a. nūc eſt ſolū3 finite cal3 vel nō cal3
⁊ nūq̄3 intēdeꝛ nec remitteꝛ: ⁊ tñ in fine erit infinite calīm.
❡ Cōtra pmā iſtaꝝ. Si.a. nūc ſit cal3 ⁊ nec intēdeꝛ nec re
mitteꝛ: ḡ ꝯtinue erit eque intēſu3 ſicut nūc eſt: ⁊ ꝑ ꝯñs non
in fine erit nō calīm. ❡ Conſilr arꝛ ꝯ zᵃᵐ iſtaꝝ. Si enim.a.
nūc eſt ſolū3 finite cal3 vel nō calīm: ⁊ ꝯtinue nec intendeꝛ
nec remitteꝛ: ſemꝑ erit eque intēſu3 ſicut nūc eſt vel nō ca
lidu3: ⁊ ꝑ ꝯñs nō in ifiᵐ intēdeꝛ. ❡ Oᵉ tñ iſte ꝯnes ſequāꝛ
arꝛ ſic. Sit.a. vnᵐ diuiſu3 in ptes ꝓporᵗᵉˢ: cuiꝰ pᵃ ps ꝓpor-
tionalis ſit aliq̄lr calida: ⁊ zᵃ in duplo calidior ꝙ̄ pᵃ: ⁊ 3ᵃ in
duplo fridior ꝙ̄ zᵃ cal'a. ⁊ ſit 4ᵃ in duplo calidior ꝙ̄ 3ᵃ eſt fri
gida. ⁊ 5ᵃ in duplo calidior ꝙ̄ 4ᵃ. ⁊ ſexta in duᵒ fridior ꝙ̄ eſt
qnta cal'a ⁊ ſic in ifiᵐ: ita ꝙ ſemꝑ oīs ps ſicut eſt minor pᵃ:
ita ſit iᵃ intēſior ⁊ ſint ſemꝑ due ptes imeᵗᵉ calide īcipiēdo
a pᵃ ⁊ zᵃ ⁊ ſit 3ᵃ ps que. ſ. eſt imediata illis frida ſic. iij. vi.
ix. xij. xv. ⁊ ſic in ifiᵐ. Oᵉ tūc.a. eſt cal3 argꝛ: q2 cōpoſitū ex
pᵃ pte ꝓporˡⁱ ⁊ zᵃ ⁊ 3ᵃ eſt cal3. nam 3ᵃ ps ꝓporˡⁱˢ eſt in duᵒ
minor zᵃ ⁊ in duplo fridior. igiꝛ tm̄ tollet de denoiatione
q̄ntū zᵃ ponit: ⁊ pᵃ ps ꝓporˡⁱˢ tantū ponit de intēſione ſicut
zᵃ. ḡ totū cōpoſitū ex pma pte ꝓporˡⁱ: ⁊ zᵃ ⁊ 3ᵃ eſt cal'. ⁊ ſic
arꝛ ꝙ cōpoſitū ex 4ᵃ 5ᵃ ⁊ 6ᵃ eſt calīm ⁊ ſic in ifiᵐ. ḡ totū cō
poſitū ex oībꝰ hꝭ cōpoſitis eſt calīm. Diuidaꝛ igiꝛ hora in
ptes ꝓporᵗᵉˢ minoribꝰ terminatis v̄ſus finē. ⁊ ponaꝛ ꝙ in
pma pte ꝓporˡⁱ huius hore remittaꝛ pma ps ꝓportiōalis
calida ⁊ pma ps ꝓporˡⁱˢ frida ad nō gradū: ⁊ in zᵃ pte ꝓ-
portionali huiꝰ hore remittaꝛ zᵃ ps calida ⁊ zᵃ ps frigida
ad nō gᵐ ⁊ ſic in ifiᵐ: ita ꝙ ſemꝑ ad nō gradū remittatur
vna ps cal'a ⁊ vna aᵃ ps frigida que corrńdent in numeris
ptiū calidaꝝ ⁊ fridaꝝ. Et ponaꝛ ꝙ cū aliqua ps fuerit re-
miſſa ad nō gradu3 nō inducaꝛ in illa3 aliqua qualitas ſ3
maneat nō qualificata: tunc totū.a. nec intēdeꝛ nec remit-
teꝛ: eo ꝙ ſicut vna ps frigida eſt minor pte calida ſimul cū
ea depdenda ita eſt eadem intēſior. ḡ equalr depderet de
iuuamēto ſicut de īpedimēto: ⁊ per ꝯñs totū nec intendeꝛ

nec remitteꝛ ⁊ in fine erit nō calīm: q2 tunc cuiuſlibet talis
ptis ꝓportionalis erit tota qualitas remiſſa ad nō gradū
nulla noua gnāta. igiꝛ ſeqꝛ ꝯclō decima vera ⁊c. ❡ Item
vndecima ꝯclō ſeqꝛ. na3 in caſu poſito totū.a. eſt ſolū fini-
te cal3 vel nō cal3: q2 q̄uis tota caliditas.a. ſit infiᵗᵃ etiā ſua
fridītas eſt infiᵗᵃ. ḡ totam denoiatione3 caliditatis īpediet
vel ſaltē faciet ꝙ iſta caliditas ſolū finite denoiabit hoc eſſe
cal3. igiꝛ ponaꝛ ꝙ in pᵃ pte ꝓportionali hore deperdaꝛ vt
pus eiꝰ fridītas que. ſ. extēdiꝛ per pmā eius ptē ꝓportiona
lem frigidā: ⁊ in zᵃ pte ꝓporˡⁱ iſtius hore depdaꝛ zᵃ fridi-
tas ⁊ ſic in infiᵐ: ita ꝙ oēs ptes fride remittātur ad nō gra
dum: ⁊ q̄ncūq3 vna ps frida remittiꝛ remittaꝛ cū ea pars
cal'a eā imeᵗᵉ ꝓcedēs ſtātibꝰ ptibꝰ reſiduis non remiſſis. ſ.
pᵃ. iiij. vij. x. xiij. ⁊ ſic in infiᵐ: ⁊ maneāt ptes ſic remiſſe per
imaginationē nō q̄lificate in fine. ⁊ ſeqꝛ ꝯclō. Nam.a. nec
intēdeꝛ nec remitteꝛ: q2 q̄ncūq3 ps aliqua frida remittiꝛ:
tūc remittiꝛ ps calida dupla ad eā quātitatiue ⁊ ea in duᵒ
remiſſior. igiꝛ tm̄ faciet remiſſio iſtiꝰ caliditatis ad totiꝰ re-
miſſionē ſicut remiſſio fridītatis ad totius intēſionē. ꝯña
tenet iuxta pōne3. ⁊ añs poniꝛ. igiꝛ ſeqꝛ ꝙ nec totū inten-
deꝛ nec remitteꝛ ⁊ in fine.a. erit īfinite calidu3: q2 tunc ha-
bebit infinitas ptes calidas equalr ad totius intenſionem
faciētes toto exiſte finito: ⁊ nō erit ibi aliqđ ꝯtriu3 denoia-
tione3 īpediēs. ḡ totū tunc erit īfinite calīm. Minor poniꝛ
in caſu: ⁊ maior arguiꝛ. q2 tunc hēbit infinitas ptes ꝓpor-
tionales calidas vt poniꝛ in caſu: ⁊ oēs tunc equalr ad to-
tius denoiationē ꝯferūt: q2 ꝓportionabilr ſicut aliq̄ illarū
eſt alia minor, ita eſt ipſa intēſior: ſeqꝛ ḡ ꝯclō. ❡ Pro iſtis Rńſio.
diciꝛ ad iſtas ꝯnes negādo ⁊ pmo ad decimā ꝯcedēdo ca-
ſum: ⁊ negaꝛ ꝙ.a. eſt calidū: q2 ptes.a. hñt fridītatē īfinitā
ſufficientes totū denoiare: q2 pma illaꝝ aliq̄lr h3 de frigi-
ditate ⁊ ſcđa tm̄ ⁊ ſic deinceps: eo ꝙ ꝓportiōalr ſicut ali-
qua illaꝝ per ſubm minus extēdeꝛ: ita eſt 1ᵃ intēſior. ideo
q̄ntūcūq3 multū de caliditate extēdaꝛ per illud corpꝰ ma-
nente frigiditate iᵃ caliditas totū nō ſufficiet denominare
calidu3: eo ꝙ vnū infinitū alio īfinito nō eſt maius. Et ſic
ſoluiꝛ argumētu3 cōtra decimā cōcluſionē negādo pma3
particulam. ⁊ negaꝛ ꝯña hec. cōpoſitū ex pma pte ꝓpor-
tionali ſcđa ⁊ tertia eſt calidum: ⁊ cōpoſitū ex. iiij. v. vi. eſt
calidū ⁊ ſic in infinitū: ergo totū eſt calidu3: q2 l3 cuiuſlibꝫ
talis cōpoſiti ſit caliditas magis denominās ꝙ̄ fridītas: q2
tamē tota fridītas totius caᵗᵇᵉᶜ eſt infinite denoiatiua nō
ꝓcedit argᵘᵐ: q2 caliditas nō plus denoiare pōt vt prius ⁊c.
❡ Sed tunc videꝛ vndecima cōcluſio ſequi. diciꝛ ꝙ nō:
⁊ concediꝛ pma pars ⁊ etiā vltima: ⁊ negaꝛ media pars. ſ.
ꝙ totu3 nec intendeꝛ nec remitteꝛ. imo diciꝛ ꝙ ſic: q2 tota
frigiditas cōtinue ante finē erit infinita infinitū ſufficiens
denoiare ſubiectum deducto ſuo cōtrario: ideo pro nullo
inſtanti ante finem intendeꝛ nec remitteꝛ. ſed quia ſubito
imediate ante fine3 deperdeꝛ frigiditas infinita que totiꝰ
caliditatis denominationē ſufficiat impedire: ⁊ q2 in fine
remanebit caliditas infinita: ideo imediate ante fine3 ſu-
bito erit acq̄ſitio intenſionis eſſe calidi in cōparatione ad
totū: ⁊ ſic imediate ante fine3 intendeꝛ: ⁊ ſic vna pars ꝯclu
ſionis eſt falſa: ⁊ ideo cōcluſio eſt negāda. ❡ Cōtra qđ ſic
arguiꝛ. Si quel3 illaꝝ frigiditatū3 nūc inciperet remitti: ⁊
ꝑ totā horā remitteretꝛ vniforꝛ: ⁊ ita ēt eſſet de illis calidi-
tatibꝰ remiſſis totā nulla3 intenſionē nūc in pnᵒ inciperet
acq̄rere. cū igiꝛ cōtinue erit vniformis remiſſio frigidita-
tis ⁊c. ſequiꝛ ꝙ in nulla pte terminata ad finē hore aliquā
latitudinē ſubito acq̄reret. Negaꝛ ꝯña: q2 l3 quel3 illarū
frigiditatū cōtinue remittaꝛ vniforꝛ: pro nullo tñ inſtanti
remitteꝛ tota illa frigiditas caᵗᵇᵉᶜ: q2 ante finē ſemꝑ ma-
nebit infinita: ſed imediate ante finē erit depditio eius ad
nō gradum: ⁊ ideo nō ꝓcedit argᵐ. ❡ Aliculꝰ eſt quel3 ps 12ª ꝯ
ꝓportionalis infinite calida: ⁊ tñ totum non eſt calidum.

Contra ſi quelꝫ pars ꝓportionalis ſit infinite calida ⁊ totum ex illis ꝑtib⁹ ꝓportionalib⁹ tanq̄ ex ci⁹ ꝑtib⁹ quātitatiuis ꝑciſe cōponit: ſeqꝛ ꝙ totū eſt infinite calm. ¶ Qꝛ ꝯ̄ ſequat̄ ex pōne ſic arguit. Sit.a. vnū corp⁹ quadrāgulare diuiſuꝫ in duas medietates cū toto eque longas: cui⁹ vna medietas diuidat̄ in ꝑtes ꝓportionales verſus ſuꝑficiem mediā toti⁹: ita ꝙ quelꝫ ꝑs ꝓporlis ſit equalr̄ longa cū toto ⁊ ſit pª illaꝝ ꝑtiū aliq̄lr̄ calida nō admixta cuꝫ friditate ⁊ ſcd̄a in duplo calidioꝛ ⁊ 3ª in q̄druplo calidioꝛ q̄ꝫ pª: ⁊ ſic in infim. Diuidit̄ et alia medietas in ꝑtes ꝓporles ex trāſuerſe v̄ſus alterū extremū: ita ꝙ quelꝫ ꝑs ꝓportionalis ſit eque lata cū medietate iª ⁊ ſit p̄ma ꝑs ꝓportionalis illarū aliqualr̄ frida ⁊ zª in duplo frigidioꝛ non admixta cū ſuo ꝯ̄rio ⁊ ſic in infinitū. Etiā diuidat̄ totū in ꝑtes ꝓportionales ex trāſuerſo conſimiliter ſicut medietas iª frigida.



Et ſequit̄ ꝯ̄ naꝫ pª ꝑs ꝓporlis .a. eſt iſite calā ⁊ zª ⁊ ſic deinceps. Nā medietas calā pª ꝑtis ꝓporlis eſt infite calā: ⁊ aª medietas ſolū finite frida. ḡ tota pª ꝑs ꝓporlis eſt infinite calā. minoꝛ ſatis pꝫ: qꝛ pª ꝑs ꝓporlis pª medietatis frigide eſt medietas pª ꝑtis ꝓporlis ſm̄ iſtā diuiſioneꝫ vt cōſtat. ⁊ minoꝛ ſic arꝛ. Nā ſicut pª medietas toti⁹ eſt calā: ita eſt q̄lꝫ ꝑs ꝓporlis illi⁹ medietatis ad ſuꝑficieꝫ mediā terminata. nā cuiuſlꝫ talis ꝑtis ſi diuidat̄ v̄ſus ſuꝑficieꝫ mediā eſt pª ꝑs ꝓporlis aliq̄lr̄ calā ⁊ zª in duplo calidioꝛ ⁊ ſic in infim: vt pꝫ cuilꝫ intuēti caſuꝫ: ḡ pꝫ ꝙ pª ꝑs ꝓporlis toti⁹ eſt infite calā ⁊ zª ⁊ 3ª ꝯ̄ſilr̄ ⁊ ſic in iſim: qꝛ cuiuſlꝫ talis ꝑtis eſt vna medietas iſinite calā reliq̄ medietate exſiſte ſolū finite frigida: ⁊ tñ totū nō eſt calꝫ: qꝛ vna medietas eſt infite frida. nā pª ꝑs ꝓporlis vni⁹ medietatis eſt aliq̄lr̄ frida ⁊ zª in duplo fridioꝛ ⁊ ſic in iſim: ḡ ibi nulla exñte calitate ⁊ friditate infita nulla calitas pōt plus denoiare: qꝛ tūc nō foret rō q̄re magis eēt calꝫ q̄ꝫ fridū. ¶ Jō dī negº ꝯ̄neꝫ: qꝛ aliquo mō pōt diuidi in ꝑtes ꝓporles: ita ꝙ nō q̄lꝫ ꝑs ꝓporlis erit calā vt ſi diuidereẗ ſic diuidit̄ medietas calā. ſ. ꝙ q̄lꝫ ꝑs ꝓporlis foret eq̄lr̄ longa cū toto ſic cōſtat. Concedat̄ tñ ꝙ quelꝫ ꝑs ꝓporlis toti⁹ ſm̄ iſtā diuiſionē eſt iſinite calā: ⁊ tñ totū nō eſt calꝫ: ⁊ h̄ bñ ꝓbat caſus imaginabilis poſitus. ⁊ tūc ad argm negat̄ ꝯ̄ña: ꝙ quelꝫ ꝑs ꝓporlis ſm̄ illā diuiſioneꝫ eſt infinite calida: ḡ totū cōpoſitū ex illis infite calidis eſt iſinite calꝫ. Multa aº pñt fieri ſophiſmata de finito ⁊ de alijs: ad que oīa ſi denoiatiōes illaꝝ q̄litatū ipſis ſeparatis cōſideres facillime poteris rñdere.

Rñſio.

¶ Tractatus quintus de raritate ⁊ denſitate.

Sequitur ingrere penes quid raritas ⁊ denſitas attēdant̄ in q̄ mā ſolūꝫ due pōnes ſunt inuēte rōnales: quaꝝ vna ponit ꝙ raritas attēditur penes ꝓportionem quātitatis ſubti ad ci⁹ materiam ⁊ denſitas attēdit̄ penes ꝓportionē materie ad q̄ntitatem. ¶ Scd̄a ponit ꝙ raritas attēdit̄ penes q̄ntitatē nō ſilr̄ ſꝫ in mā ꝓportiōata vel in cōpatiōe ad māꝫ. ¶ Diuerſitas iſtarum pōnuꝫ ſic pꝫ. Pria pōit ꝙ attēdit̄ penes ꝓporneꝫ ⁊c. ita ꝙ ſic ꝓporº q̄ntitis ad māꝫ ē maioꝛ: ita raritas eſt maioꝛ: vt ſi raritas ſiat dupla reqrit̄ ꝙ ꝓporº q̄ntitis ad māꝫ dupleẗ. ¶ Scd̄a pōit ꝙ ꝓportiōabilr̄ ſicut tota q̄ntitas ſit maioꝛ manēte mā eadē ita raritas eſt maioꝛ: vt ſi nūc ſit aliq̄ raritas ad duplationē illi⁹ raritatis nō ſeq̄t dupla° ꝓporis q̄ntitatis ad māꝫ ſꝫ ſolum duplicatio q̄ntitis ſi maneat mā. ¶ Pro pª ⁊ zª pōne arꝛ. Nō pōt poni ꝙ ſimplr̄ attendit̄ penes q̄ntitē ſubti ſeu diſtātia pūctoꝝ a ſeinuicē: qꝛ tūc oīa eq̄lia in q̄ntite eſſent eq̄ rara. ꝯ̄ña pꝫ de ſe ⁊ falſitas ꝯ̄ñtis pꝫ: qꝛ pedalis q̄ntitas ignis eſt rarioꝛ q̄ꝫ pedalis terre vt ſatis pꝫ: ḡ attēdit̄ penes q̄ntitatē in cōpatiōe ad māꝫ: ⁊ ſic cōſtat pª pō ꝙ attēdit̄ penes ꝓporneꝫ ⁊c. ¶ Pro iſtis eſt notādūꝫ ꝙ plus eſt ð mā in pedali terre q̄ꝫ in pedali ignis: qꝛ alr̄ nō vꝛ rarioꝛ ignis q̄ꝫ terra: vt ſi ignis gñet̄ ex terra toti⁹ q̄ntitas maiorat̄: ⁊ ſic totū fieret rari⁹ q̄ꝫ nūc eſt: nihil tñ deꝑdet de mā nec acqret: ⁊ iō nūc eſt plus ð mā in iª terra q̄ꝫ eſt in q̄ntite eq̄li ignis gñandi: nō itelligēdo ly plus ſic ꝙ tota mā ſit maioꝛ q̄ntite ſꝫ ꝙ eq̄lr̄ eſt de mā q̄ eſt mā terre ſic erit in fine in igne generādo: ⁊ nūc eſt plus de iª mā in quātitate terre q̄ꝫ eſt in q̄ntitate eq̄li ignis generādi. Nota

Contra pªꝫ pōneꝫ arꝛ vnica forº. Ex h̄ ſeq̄t ꝙ oīa eq̄lia in q̄ntite ſiue eq̄ rara ſiue ineq̄lr̄ rara eq̄lr̄ acqrētia de q̄ntite eq̄ue rareſiāt. ¶ Et ꝙ h̄ ſit ipoſe arꝛ ſic. Sint.a.b. eq̄lia ⁊ ineque rara q̄ rareſiāt eq̄les q̄ntites acqrēdo tūc ꝓportiōabilr̄ ſic maiorat̄ q̄ntitas alic⁹ illoꝝ ita ꝓportiōabilr̄ acqret̄ raritas: qꝛ ſic totū erit maioris quātitis ita ꝑtes a ſeinucē diſtabūt: ⁊ ſic pūcta diſtabūt plus ſiet rari⁹ iux̄ deſcriptiōeꝫ raritatis. cū igit̄ eq̄ ꝓporꝛ maiorabit̄ q̄ntitas.a. ſic q̄ntitas.b. ⁊ eꝯ̄: ſeq̄t ꝙ eque ꝓportiōabilr̄ maioreẗ raritas.a. ſic.b. cū igit̄ ille raritates ſint ineq̄les / ſeq̄t ꝙ plus diſtat vna a ſuo duplo q̄ꝫ alia. Si ḡ tā.a. q̄ꝫ.b. maiorat̄ ad dum ſeq̄t ꝙ vnuꝫ maiorē latineꝫ raritatis acqret q̄ꝫ reliquū: ⁊ ſi ſic nō eq̄lr̄ rareſiēt ponēdo velocitatē rarefactiōis attēdi penes latineꝫ raritatis acqſite. ſeq̄t ḡ ꝯ̄neꝫ eē ſlaꝫ. ¶ Et ꝙ illa ſequat̄ arꝛ ſic. Sint.a. ⁊.b. eq̄lia in q̄ntitate ⁊ ineq̄ rara ⁊ rareſiāt eq̄lr̄ acqrēdo de q̄ntitate ſine acqſitiōe mãe ⁊ ſine deꝑditiōe eiuſdē. Quo poſito arꝛ ſic. tantā ꝓportiōeꝫ q̄ntitis acqret.a. ſupra māꝫ ſic ſupra ſeipa: eo ꝙ in fine ꝓporº q̄ntitis ad māꝫ cōponet̄ ex ꝓporne ei⁹ ad q̄ntitatē ꝑbitā ⁊ illi⁹ q̄ntitis ad māꝫ vt ꝓbab' vlr̄ de poº ⁊ reſiſtentia in pª regl'a de motu locali: ⁊ ſilr̄.b. acqret tātā ꝓporneꝫ reª ſue mãe ſic reª q̄ntitis ꝓbabite. Sꝫ q̄ntitas.a. eq̄lr̄ acqret de ꝓporne ſupra ſeipſaꝫ ſic q̄ntitas.b. eo ꝙ nūc ſunt eq̄les ⁊ ſꝑ erūt: ḡ ſeq̄t ꝙ equeue maiorabit̄ ꝓporº q̄ntitatis.a. ad ſuā māꝫ ſic ꝓporº q̄ntitatis.b. ad ſuā māꝫ: ⁊ penes ꝓporneꝫ q̄ntitis ad māꝫ iux̄ pōneꝫ attendit̄ raritas: ḡ eq̄ue acqrēt.a. ⁊.b. de raritate: ⁊ ꝑ ꝯ̄ñs eq̄ue rareſiēt: ḡ ſeq̄t oīo ꝯ̄cl'o ipoſis. ¶ Jtē ſic cuiuſlꝫ alteri⁹ poſitiui ꝯ̄tigit imaginari vnū ſim iſinite denoiari a tali nā qō tñ ē difformeita ꝯ̄tigit dare raꝝ difforme ſim qō tādeꝫ infiº ḡdui corrñdēt: qꝛ non eſt maioꝛ rō q̄re raritas magis ſe hēat poſitiue vel ꝑuatiue q̄ꝫ dēſitas ſicut ſeq̄t ex hac pōne. ſꝫ ꝯ̄ñs eſt imaginabile: qꝛ ſi ſic ſit.a. tale. cōtra. aliq̄ ꝑs.a. eſt finite rara ⁊ aliq̄tulū hñs de mā ſub certa q̄ntitate ⁊ ſic ð oib⁹ alijs ꝑtib⁹. ḡ tota mā eſt finita ⁊ ſilr̄ q̄ntitas vt ſuppono. igit̄ totū.a. ē ſolū finite raꝝ ⁊ ꝑ ꝯ̄ñs nō iſinite raꝝ. ſeq̄t ḡ pōnē eē ſlaꝫ.

ꝯ̄ pªm pōneꝫ

zm

2ª pō. **Ideo ponitur** 2ª poſitio .ſ. raritas attēdit̄ penes diſtātiā pūctoꝝ ad ſeinuicē nō ſimpl'r: ſed in mā ꝓportionata vel in cōparatōe ad mām ſic intelligēdo ſi duo ſubdupla ineq̄lia eq̄l'r habeāt d' mā ꝓportionabil'r ſicut vnū eſt alio mai⁹: ita eſt eo rari⁹. Et ſi eq̄lia ſint eque rara eq̄l'r hēbunt de mā: ⁊ ſi ineq̄lia ſint eq̄ rara ꝓportionabil'r ſicut vnū eſt alio maius: ita plus hȝ d' mā: ⁊ ſi eq̄lia ſint ineq̄ rara ꝓportiōabil'r ſicut vnū eſt alio rari⁹: ita min⁹ hȝ de mā. Hec aūt pō tenet gnal'r tā in difformib⁹ q̄ȝ in vniformib⁹: ponere eniȝ vnā pōneȝ q̄ ſoluȝ teneat in vniformib⁹ eēt valde inſufficiēs ſm q̇ multi tenent de hac pōne: eo q̇ in reb⁹ eſt multa difformitas. Cōtra hāc pōneȝ vident̄ eē quedā que inferi⁹ arguent̄.

❡ Utrū tā raritas q̄ȝ den^{ſitas} poſitiue ſe hēant vel alt'a tm̄ ⁊c.

Dicto penes qd attēdit̄ raritas ⁊ dēſitas: reſtat īqrere nūqd tā raritas q̄ȝ dēſitas ſe hēant poſitiue vel ſoluȝ vna illaꝝ ſe hēat poſitiue ⁊ q̄ illaꝝ fuerit. ❡ Circa quā mām plures

1ª pō ſunt pōnes. Quaꝝ vna ponit q̇ vtrūqȝ eſt ſe hn̄s poſitiue

2ª ſicut calitas ⁊ fri[d]itas. ❡ Scđa ponit q̇ raritas ſe hȝ po-

3ª ſitiue ⁊ denſitas ꝓuatiue. ❡ Tertia ponit q̇ raritas ſe hȝ poſitiue ⁊ raritas ꝓuatiue: addens q̇ ex vniformi rarefactione alic⁹ per tp̄s ſm ſe totuȝ acqrit̄ vnifor' q̄ntitas: ⁊ ſi rari⁹ ⁊ denſius eq̄lis q̄ntitatis eque velo' rarefiāt: dēſius ma-

4ª iorē q̄ntitatē acqrat q̄ȝ rarius. ❡ Quarta ponit q̇ denſitas ſe hȝ poſitiue: ⁊ dicit opp^{m} ei⁹ qđ addit̄ in 3ª pōne.

3ª pō **Contra poſitionem** primā arguit̄ per hoc q̇ eque velo' ⁊ eque ꝓportionabil'r acqrit̄ raritas ſicut denſitas deꝑdit̄: ⁊ hoc non pōt eē de duob⁹ poſitiuis. ğ pō fſa. ❡ Qz aūt hō nō poſſit eē de duob⁹ poſitiuis arguit ſic. Ponat̄ gr̄a argumēti q̇ raritas augmētet̄ vnifor' ad ſuū du^{m}: tūc ſi eque velo' ⁊ eque ꝓportionabil'r minorat̄ denſitas: ſeq̄t̄ denſitatē remitti vnifor' ad ſubdu^{m}. Sȝ ſi aliqđ poſitiuū augmētet̄ vnifor' ad ſuū du^{m} ꝓportionabil'r velocius intēdet̄ in p^{a} medietate tp̄is q̄ȝ in 2ª: q2 in p^{a} acqrit̄ ꝓportio ſexqaltera ⁊ in 2ª ſexquitertia. Et ſi dēſitas remittet̄ vnifor' ad ſubdu^{m} in p^{a} medietate tp̄is tardi⁹ ꝓportiōabil'r remittit̄ q̄ȝ in 2ª: q2 in p^{a} medietate tp̄is deꝑdet ꝓportionē ſexqtertiā tm̄ ⁊ in ſcđa ſexqalterā. ğ maiorē ꝓportionē acqrit raritas in p̄ma medietate tp̄is q̄ȝ denſitas deꝑdet: ⁊ ſi ſic ſeq̄t̄ q̇ nō eque ꝓportionabil'r maiorat̄ raritas ſicut denſitas deꝑdit̄: ⁊ per ꝯñs nūq̄ȝ eq̄l'r ⁊ eque ꝓportiōabil'r maiorabit̄ raritas ſicut denſitas deꝑdit̄. Et q̇ eque velo' ⁊ eque ꝓportionabil'r maioret̄ denſitas ſicut raritas deꝑdit̄ ⁊ ecō pȝ: q2 ꝓportionabil'r ſicut aliqd fit dēſius ita fit minoris quātitatis: q2 ptes magis ꝓpinque ſibiīuicē iacent: ⁊ ſicut fit minoris q̄ntitatis ſic fit min⁹ rarū: q2 ſi rarefiat .a. ſicut rarefieret ſic eſſet maioris quātitatis. ğ ſi ecō cōdēſet̄ ſicut erit minoris quātitatis ſic erit min⁹ rarū. ğ ſeq̄t̄ q̇ ꝓportionabil'r ſicut fit denſius: ita fit min⁹ rarū. Et q̇ eque velo' maioret̄ denſitas ſicut minorat̄ raritas arguit̄ ſicut de calitate ⁊ friditate.

Confir° ❡ Itē eque velo' ſicut acqrit̄ de diſtātia ptiū adinuicem ſic deꝑdit̄ de ꝓpinqtate earūdem ptiū abinuicē: ⁊ ad remotionē ptiū abinuicē ꝯſeq̄t̄ raritas: ⁊ ad ꝓpinqtatē partiuȝ ꝯſeq̄t̄ denſitas: ğ eque velo' deꝑdet̄ vna ſicut alia acquirit̄.

Confir° ❡ Item non differunt raritas ⁊ denſitas inter ſe realiter: quia ꝓpinquitas ptium eſt eadem realiter cum diſtantia earūdeȝ: ⁊ ꝓpinqtas ptiū eſt dēſitas ⁊ diſtātia eſt raritas.

2° ergo ⁊c. ❡ Itē ſi raritas ⁊ denſitas forēt ꝯ̄ria: ſeq̄t̄ q̇ non oē rarū foret denſuȝ: q2 tūc foret ignis ſūme rarus ⁊ terra ſumme dēſa. Opp^{m} ꝯñtis per deſcriptionē rari ⁊ dēſi pȝ.

3° ❡ Itē data iſta pōne ſeq̄t̄ q̇ aliqd eſt finite rarum finite quātitatis: īfinite tm̄ po' nullaȝ aliā qualitatē hn̄do īfinitā: cuius tm̄ opp^{m} ſemꝑ eſt veꝝ ſi denſitas aliqd ponit d' po°. nam ſicut aliqd eſt denſius cū alijs diſpōnib⁹ q̄litatiuis ⁊ quātitatiuis ita eſt maioris po'. Et q̇ 1ª ꝯclō ſequat̄ arguit̄ ſic. Ponat̄ q̇ .a. ſit vnū vnifor' difforme rarū terminatuȝ ad nō graduȝ raritatis: ⁊ ſit gr̄a argumēti vnifor' calidūȝ vel fridūȝ vel aliq̄ alia q̄litate qualificatū. Et arguit̄ q̇ .a. ſit finite rarū: q2 .a. eſt vnifor' difforme rarū: ğ .a. eſt finite rarū. ꝯñā cū añte pȝ ex caſu. Et q̇ .a. ſit finite q̄ntitatis ſolū hn̄s aliquā q̄litateȝ ſeu q̄nti^{tatem} finitā ſeu finitas pȝ ex caſu. Et q̇ totū ſit infinite potētie pȝ: q2 2ª ps ꝓpor^{lis} eſt in duplo minoris quātitatis q̄ȝ p^{a}: ⁊ in duplo denſior q̄ȝ p^{a} cum alijs diſpōnib⁹ eq̄lib⁹. ğ ſcđa ps ꝓportionalis eſt tāte po^{s} ſicut p̄ma ps ⁊ 3ª ps per ideȝ ſicut 2ª ⁊ ſic deinceps: ğ tota ſua po^{a} eſt infinita. ꝯñā pȝ cū añte. ❡ Illud ſic ꝯfirmat̄. Confir° Ponat̄ quācūq̄ȝ pteȝ ꝓportiōaleȝ aliā a p̄ma rarefieri ad equalitatē p̄me. Et ſeq̄t̄ q̇ illa que nūc eſt 2ª ps ꝓportionalis erit in fine eq̄lis quātitatis ⁊ raritatis cū p^{a} ⁊ aliaruȝ diſpōnuȝ equaliū: ⁊ ſic ēt erit de quacūq̄ȝ alia pte ꝓpor^{li}. igit̄ quelȝ ps ꝓportionalis in fine erit eq̄lis po' cū p̄ma: ⁊ nulla ps ꝓportionalis augmētabit̄ in po^{a}: ergo nūc eſt q̄lȝ ps ꝓportiōalis eq̄lis po' cū p̄ma. Añs arguit̄: q2 ſicut aliq̄ ps eſt maioris quātitatis ita eſt minus denſa: ğ nulla talis maiorabit̄ in po^{a}. vel ſic. totū in fine erit infinite potētie: ⁊ nūc eſt tante ſicut tūc erit. ğ nūc eſt īfinite potētie. Maior pȝ: q2 in fine erit totū infinite quātitatis finite denſum: ga vnifor' denſuȝ ⁊ finite intēſuȝ alijs q̄litatib⁹. ergo ⁊c. ⁊ minor arguit̄: q2 ſicut erit maioris quātitatis: ita erit minus denſum. ❡ Itē ſequit̄ 1ª ꝯclō q̇ aliqd eſt raruȝ qđ non eſt 4° raꝝ: q2 in iſto caſu .a. eſt rarū vnifor' difforme. Et q̇ nō ſit rarū arguit̄ ſic: q2 .a. eſt īfinite denſuȝ: ğ nō eſt rarū. ꝯñā pȝ: ſicut eniȝ eſt aliqd alio denſius: ita eſt eo min⁹ rarū. ⁊ añs pȝ: q2 p^{a} ps ꝓportionalis eſt aliq̄l'r denſa: ⁊ 2ª in duplo dēſior ⁊ ſic deinceps. ğ tota denſitas eſt infi^{ta} ⁊ raritas finita: ergo in infinitū excedit raritatē dēſitas. ⁊ tūc ſi ſic: ergo eſt infinite denſuȝ: ⁊ per ꝯñs nō eſt raꝝ: ⁊ ſic per iſtū caſuȝ pȝ pōneȝ fore falſaȝ: ⁊ caſus eſt poſſi°. ſi .n. raritas ſe hēat poſitiue vt calitas: tūc ſicut ꝯtingit accipe calīm vniformiter difforme ad nō gradū calitatis terminatū: ita ꝯtingit accipere rarū vnifor' difforme ad nō g^{m} raritatis terminatū. ❡ Iteȝ ꝯ̄ iſtā pōneȝ ſic arguit̄. Si foret aliqđ calīm cuius 5° prima ps foret aliq̄l'r calida ⁊ 2ª in duplo calidior ⁊ ſic in infinitū hn̄s frigiditatē ſoluȝ finitā totū eēt infinite calīm vt ꝓargutū eſt: q2 eſſet infinit⁹ exceſſus calitatis ſupra frigiditatē. ğ per ideȝ ſi foret aliqđ tale: cuius p^{a} ps ꝓportionalis eſſet aliqual'r rara ⁊ 2ª in duplo rarior: ⁊ ſic in īfinitū totū eēt infinite raꝝ: eo q̇ raritas eēt īfinita ⁊ dēſitas ſolū finita. ſed ꝯñs falſuȝ: ğ poſitio falſa. falſitas ꝯñtis pȝ. Naȝ ſit .a. vnū tale: ⁊ ſeq̄t̄ q̇ mā .a. eſt aliquāta ⁊ quātitas ſoluȝ finita: ergo totū .a. eſt ſolū finite rarū. ꝯñā pȝ: q2 ſit .b. vniformiter raꝝ hn̄s tātū de mā ſicut .a. ⁊ ſit tante quātitatis ſicut .a. caſus pȝ. nā ex quo .a. tātū ꝯtīet de mā demōſtrata vna q̄ntitate māe .b. tātū pōt ꝯtinere cū ſit vnifor'. Et ſi .b. ſit maioris quāti^{tatis} q̄ȝ .a. pōt ꝯdēſari ad eq̄litatē .a. manēs vniforme. ⁊ ſi .b. ſit minoris q̄nti^{tatis} q̄ȝ eſt .a. pōt rarefieri ad eq̄litatē .a. ſemꝑ manēs vnifor' vt ꝯſtat cuilȝ intuenti: quo poſito .b. eſt ſoluȝ finite raꝝ: q2 vnifor' raꝝ certe quātitatis certū ꝯtinēs de mā: ⁊ .a. eſt eque raꝝ cū .b. q2 .a. eſt eq̄lis quātitatis cū .b. tantū ꝯtinēs de mā ſic .b. ğ ꝑ vtrāq̄ȝ pōnē ponentē penes qd attēdit̄ raritas: ſeq̄t̄ .a. eē eque raꝝ cuȝ .b. ⁊ ſic ſeq̄t̄ q̇ .a. eſt ſolū finite raꝝ. ğ ꝯclō falſa. que tm̄ ſequit̄ ſi raritas foret res poſitiua ſicut calitas ⁊c. ergo ſeq̄t̄ q̇ nō taȝ raritas q̄ȝ etiā denſitas ſe hn̄t poſitiue.

2ª pō **Sequitur** ergo poſitio ſcđa que ponit q̇ raritas ſe hȝ poſitiue ad quā ſic arguit̄. Inter oēm graduȝ raritatis ⁊ graduȝ infi^{m} raritatis eſt latitudo infinita. ſed inter nullū gradum ſummū alicuius priuatiui ⁊

gradu3 eiuſde3 infiniti eſt latitudo infinita vt argutu3 eſt
de latitudine remiſſionis. ergo latitudo raritatis nõ ſe h3
priuatiue. Maior arguit̃ ſic. Capiat̃ aliqđ rarũ qđ rareſiat
in infi^m: tũc vel eſt eı᷒ raritas tãta ſicut quãtitas vel maior
vel minor. Si p̃ciſe tãta ⁊ ita ꝓportionabil'r augmẽtabit̃
raritas cu3 q̃ntitate: eo ꝙ ſicut erit rari᷒ ita ꝓportionabil'r
erit maius. ⁊ ſi ſic ↄti^e equeue^r augmẽtabunt̃. nã ↄti^e erũt
eq̃les: ⁊ ſi ſic ↄtinue tãtũ addet̃ raritati ſicut quãtitati: ſed
quãtitati addet̃ latitudo q̃titatis infi^ta. g̃ ⁊ raritati addet̃
latitudo infi^ta. ſed nulla niſi i^a que eſt iter illu3 g^m ⁊ gradũ
infi^m raritatis. g̃ i^a latitudo eſt infi^ta. Si g̃ dicat̃ ꝙ raritas
ſit maior q̃3 quãtitas ⁊ eque ꝓportiõabil'r augmẽtabunt̃.
g̃ in qua ꝓportiõe erit raritas maior q̃3 quãtitatis in eadẽ
ꝓportiõe veloci᷒ maiorabit̃ ⁊ ſibi plus addet̃. cum ergo
quãtitati addet̃ infi^ta quãtitas. g̃ ⁊ raritati addet̃ latitudo
infi^ta. Si g̃ dı̃ ꝙ raritas ſit minor q̃ntitate ⁊ ꝓportiõabil'r
augmẽtabit̃. g̃ in ea ꝓportione in qua erit minor/in ea ꝓ/
portiõe min᷒ acqret: ſed q̃titas acqret infinitũ. g̃ ⁊ raritas
acqrit infinitã latitudinẽ raritatis: ⁊ per ↄñs inter oẽm g^m
raritatis ⁊ g^m infi^m eſt lati^do infi^ta: qđ nõ eſt veru3 de aliq̃
latitudine p̃uatiua. ❡ Pro i^o etiã põne ſũt arg^ta q̃ erũt fc̃a
3 põne3 ↄ põnẽ ponẽtẽ ꝙ dẽſitas ſe h3 poſitiue. ❡ Cõtra iſtã põnẽ
ar^r ſic. Ex i^a ſeq̃t̃ ꝙ in oĩ raro eſt ifi^ta dẽſitas. nã in oĩ raro
eſt aliq̃ raritas ⁊ ſubdu^a ⁊ ſubq̃drupla ⁊ ſic in ifi^m: ſic in oĩ
intẽſio eſt aliq̃ itẽſio ⁊ ſubdu^a ⁊ ſubq̃drupla ⁊ ſic in infi^m:
⁊ per ↄñs in oĩ raro eſt aliq̃ denſitas ⁊ dupla ⁊ q̃drupla ⁊
ſic in ifi^m. ſicut. n. raritas eſt minor/ſic dẽſitas eſt maior: q̃2
nõ eſt aliud eẽ dupla3 denſitatẽ q̃3 ſubdupla3 raritatẽ ſic
dupla remiſſio eſt ſubdu^a intenſio. g̃ ſicut ſeq̃t̃ hic eſt aliq̃
intẽſio ⁊ ſubdupla ⁊ ſubq̃drupla ⁊ ſic in infi^m: g̃ hic eſt re/
miſſio dupla q̃drupla ⁊ ſic in ifi^m. per idẽ ſeq̃t̃/in iſto raro
eſt aliq̃ raritas ⁊ ſubdupla ⁊ ſubq̃drupla ⁊ ſic in infi^m. g̃ in
Confir° iſto eſt aliq̃ dẽſitas dupla q̃drupla ⁊ ſic in ifi^m. ❡ Ite3 in
oĩ magno eſt infi^ta paruitas: q̃2 aliq̃ magnitudo ſubdupla
ſubq̃drupla ⁊ ſic in infinitũ. g̃ per ide3 in oĩ raro eſt infi^ta
dẽſitas: q̃2 raritas re^u denſitatis ſe h3 ſicut magnitudo re^u
paruitatis: ⁊ ſic de oĩ latitudine poſitiue vel p̃uatiue ↄſide
rata: vel que ſe h3 re^u alteri᷒ poſitiue ꝙ id includit in ſe in/
finitũ g^m ſui ↄ̃riũ p̃uatiui. ↄñs ad qđ deducit̃ eſt falſum: q̃2
dẽſitas eſt magna ex hoc ꝙ certa eſt mã in modica quãti/
tate: ⁊ ſicut certa eſt mã in q̃ntitate minori: ita eſt denſitas
maior. ſi g̃ dẽſitas foret ifinita certa mã in oĩ tali raro ſub
infi^m modica q̃titate exiſteret. ↄñs falſu3: q̃2 aliqđ põt eẽ
2^a pn^ter. rarũ vniformiter. ❡ Scđo ↄ illã põne3 arguit̃ ſic. Ex illa
ſequit̃ ꝙ oẽ rarũ eſt ifinite rarũ. na3 in oĩ raro eſt infinita
raritas ⁊ ſolu3 finita dẽſitas: qđ arguit̃. Capiat̃ aliqđ rarũ
pedale gr̃a exẽpli: tũc ↄtingit dare ptes mãe in duplo mi/
nore3 q̃3 eſt tota mã toti᷒ q̃titatis eq̃lis cũ tota. ſi eni3 per
abſtractionẽ mãe ad oẽ3 pũctũ foret raritas dupla: ita ꝙ
medietas mãe eſſet abſtracta: tota mã remanens foret in
duplo rarior q̃3 nũc eſt tota mã: ⁊ nunc eſt tota remanens
eq̃lis quãtitatis ſicut nũc eẽt. g̃ nũc eſt iſta mã in duplo ra
rior q̃3 tota mã: q̃2 eſt eq̃lis quãtitatis cũ tota mã. per ide3
arguit̃ ꝙ in illo eſt mã ſubquadrupla ad totã mãm eq̃lis
quãtitatis cũ tota ⁊ ſic deinceps. g̃ tota mã eſt aliq̃l'r rara
medietas mãe eq̃lis q̃ntitatis cũ toto in duplo rarior: ⁊ 4^a
ps mãe eq̃lis q̃ntitatis cu3 tota in q̃druplo rarior ⁊ ſic de/
inceps: g̃ in ſe ↄtinet ifinitã raritatẽ. ſi g̃ raritas poſitiue ſe
h3 ſicut intẽſio vel magnitudo: ſeq̃t̃ ꝙ tale rarũ eſt Ifinite
3° rarũ ſicut hñs magnitudinẽ infinitã eſt infi^m. ❡ Itẽ ſeq̃t̃
ꝙ ſi aliqđ rareſiet ſubito fieret infinite rarũ. nam ad oẽ3
punctũ eſt ifinite velox rareſactio. qđ arguit̃ ⁊ ꝓbat̃ p̃mo
ꝙ ſi eq̃lia quãtitatiue ineq̃l'r rara rareſierent: ita ꝙ ſemꝑ
manerẽt eq̃lia ſicut vnũ eſt alio rarius ita velocius rare/
fiet: vt ſi ſint duo pedalia: quo2 vnũ ſit raru3 vt quatuor:
⁊ aliud vt duo: tunc ſi manebũt ↄtinue equalis quãtitatis:
ſequit̃ ꝙ eque ꝓportionabil'r rareſient. g̃ nũc cũ vnu3 ſit
in duplo rarius: ſeq̃t̃ ꝙ cõtinue erit in duplo rarius: ⁊ per
ↄñs ↄtinue in duplo veloci᷒ acqret de raritate. ſi eni3 vnũ
ſit duplu3 ⁊ ſemꝑ manet duplu3 re^u alterius ⁊ vtrũq3 ↄti^e
maiorabit̃/ſeq̃t̃ ꝙ duplu3 in duplo veloci᷒ acqret de quã/
titate: vt id qđ nũc eſt rarũ vt duo cũ fuerit vt q̃tuor: tunc
illud qđ eſt rarũ vt q̃tuor ſi ſemꝑ maneat duplum: op3 ꝙ
tũc fieret vt. viij. ⁊ ſic acqret. iiij. cũ reliquũ acquiret. ij. qđ
gñal'r eſt ve2 de oĩb᷒ poſitiuis poſitiue cõſideratis. Et ex
hoc arguit̃ vt p̃us argutũ eſt. cõtingit accipe mãm ſubdu/
pla3 eq̃lis q̃ntitatis cũ tota mã: ⁊ ſeparet̃. g̃ in duplo velo/
cius illa rareſiet q̃3 tota mã: ⁊ ſic in infi^m. cũ g̃ ad oẽm pun/
ctu3 illi᷒ rari ſit aliqs punct᷒ cuiuſli3 talis ptis mãe: ſequit̃
ꝙ ad oẽm punctũ hui᷒ eſt ifi^ta velox rareſactio: qđ fuit ꝓ/
bandũ. ❡ Itẽ arguit̃ ex ↄñte. ad oẽm punctũ erit cõtinue
infi^te velox rareſactio ⁊ nulla ↄdenſatio. g̃ totũ ſubito fiet
infinite rarũ: ſicut ſi ad oẽ3 punctũ alic᷒ intẽſi infi^te velox
cõtinue eẽt intẽſio ſubito fieret infinite intenſu3/nulla ad
eade3 puncta fc̃ã remiſſione. g̃ ſequit̃ ꝙ ſi aliqđ rareſieret
ſubito fieret infi^te rarũ. ⁊ ſi ſic, ſeq̃t̃ ↄclo p̃us reducta ꝙ oẽ
rarũ eſt Ifinite rarũ: q̃2 ſi nõ/ſit illud. a. ⁊ ſit. b. rari᷒. a. quo
poſito rareſiat. a. ad raritatẽ. b. ⁊ ſeq̃t̃ ꝙ ſubito fiet ifinite
rarũ per p̃argũta ⁊ nõ ſubito fiet rari᷒. b. vel ſeq̃t̃ ꝙ nihil
per tp̃s poterit rareſieri. g̃ ſeq̃t̃ ꝙ. b. erit ifinite raru3: ⁊. b.
eſt ſolũ finite rarius. a. q̃2 vtrũq3 eſt q̃ntitatis finite. g̃ ſeq̃t̃
ↄclo: que tñ eſt ipoſſis. ❡ Quarto ↄ iſtã põne3 ſic arg^r. Ex 4°
illa ſeq̃t̃ ꝙ aliqđ eſt rarũ finitũ difforme ⁊ finite ra2 cer/
to gradui finito vniformi correſdẽs: qđ tñ ſi ad vniformi/
tatẽ gradus alic᷒ raritatis quãtũcunq3 remiſſi᷒ duceretur
fieret infi^te dẽſu3 ſi quãtitas finita maneat: qđ tñ nõ eſt cõ
ſonũ rõni ſi deſcriptio rari ſit hñ data. ſeq̃t̃ eni3 ꝙ ſi fieret
vnifor^r aliq̃ gradu raritatis foret rarũ: ⁊ per ↄñs nõ fieret
infinite dẽſu3: qđ tñ in vna p̃ticula ↄñis reducte ponitur.
❡ Oz aũt iſta ↄclo ſequat̃ ſtati3 arg^r ſic. Et capiat̃ aliqđ
vnifor^r difforme rarũ ad nõ gradũ raritatis terminatũ ſit
gr̃a exẽpli: pedale ſit id. a. tũc. a. eſt finite rarum: eo ꝙ vni/
formiter difforme rarum ⁊ ẽt finite quãtitatis vt conſtat.
arguit̃ iam alia ps ꝙ. ſ. ſi ad vniformitatẽ reduceret̃: ma/
nens quãtitatis finite/fieret ifinite denſum. ſi. n. foret mã
aliq̃ alicui᷒ q̃ntitatis finite vnifor^r rara/illa foret aliqual'r
rara: ⁊ ſi mã dupla foret eiuſdẽ quãtitatis: illa foret in du^o
denſior: ⁊ ſic deinceps. Cu3 g̃ mã. a. ſit infi^ta ſeq̃t̃ ꝙ ſi foret
quãtitatis finite vnifor^r rara vel denſa ꝙ illa ifinite den/
ſitatis ↄſiſteret. Et ꝙ mã. a. ſit infi^ta ſtati3 ſic arguit̃. Diui/
datur. a. in ptes ꝓportionales verſus nõ gradũ: tũc prima
pars ꝓportionalis eſt in duplo rarior 2^a vt p3: ⁊ in duplo
maioris quãtitatis. ergo tanta p̃ciſe eſt mã prime partis
ꝓportionalis ſicut ſecũde. Et ſic per ide3 arguit̃ mã3 ſcđe
ptis eſſe equale3 materie tertie ptis ⁊ ſic in infinitu3. ergo
infinitã materiã cõtinet. a. qđ fuit ꝓbãdum: ex quo ſequit̃
cõcluſio i^a falſa reducta. ergo poſitio falſa. ❡ Ite3 ſequit̃
ꝙ nulli gradui in raritate correſpõdet: q̃2 ſi ſic ſit gradus
ille. b. cõtra reducat̃ tunc ad vniformitatẽ illius gradus: ⁊
ſequit̃ ꝙ tunc erit infinite quãtitatis: q̃2 aliter ſequeret̃ ꝙ
aliqua mã cũ tanta raritate eſſet alicui᷒ quãtitatis dupla
mã cu3 equali raritate eſſet in duplo minoris quãtitatis ⁊
ſic in infinitũ. cu3 ergo mã. a. ſit infinita per p̃argũta: ſeq̃t̃
ꝙ ſi foret vniformiter rarũ infinite foret quãtitatis: quia
ſicut mã eſt infinita: ita op3 reducere quãtitate3 ad infini/
tum: ⁊ per ↄñs ſi ad vniformitatẽ reducat̃ quãtitas in ifi/
nitum eſſet maior q̃3 nunc eſt ⁊ mã equalis: ergo raritas
eſſet maior q̃3 nũc eſt. ↄñia tenet: eo ꝙ rarũ eſt cuius par/
tes remote iacent: ſicut ergo partes remotius iacent in mã
equali: ita raritas eſt maior. Ex his ſequitur ꝙ raritas. a.

b. gradui nõ corrīdet: q2 ſi ſic ad .b. gradus vnifor' poteſt
5° reduci. ¶ Quinto ad idez ꝯ iſtā põnez arguit̃ ſic. qḋ argᵐ
bñ notet. Ex iſta ſeqt̃ iſta ꝯclo reducta ꝯ pmā põnez. ſ. ꝙ
aliqḋ finitū finite rarū eſt īfinite magne po', nullam aliaz
hñs q̄litatē infinitā. arguit̃ illā ꝯnez ſeq ad eandē ſicut ex
pma põne ſequi eſt arguitũ: ⁊ idem caſus in vtraqꝫ ponit̃.
¶ In oppᵐ huiꝰ arguit̃. ſicut .n. raritas eſt minor cū aliis
diſpõnibꝰ eq̄libꝰ, ita poᵒ eſt maior. Si ḡ raritas ſit ſolū fi-
nita ⁊ ēt oēs alie diſpões ſolū finite: ſeqt̃ eiꝰ poᵃˢ ſoluz eē
finitā: ⁊ ſic ſeqt̃ iſtā põnez eē falſam ponẽtez ꝙ raritas ſe
hēat poſitiue reᵒ dẽſitatis. ¶ Cõtra iſtā põnez arg' ēt per
ꝯnez tertiā reductā cõtra poſitionē pꝛimā cuꝫ eodē caſu
⁊ argumentis pro ⁊ cõtra.

3° pō. **Reſtat tertiā** põnez reducere ponẽtez ꝙ dẽſitas ſe hꝫ poſitiue ⁊ ꝙ ex vniformi rare-
factiõe alicꝰ p tps ſm ſe totū acqrit̃ q̄ntitas vni' q̄ntuꝫ ad
tps ⁊c. Pro pᵃ pte ſunt oia arᵗᵃ q̄ ſūt ꝯ opionē pcedentem.
Pro 2ᵃ vo pte ſic ar'. Sit .a. vnū rarꝫ vni' rarefactū: tūc ſi
raritas .a. ⁊ ſua q̄ntitas in gᵘ corrīdeāt ⁊ eq̄ pꝓpor' maiorat̃
raritas cū q̄ntitate iuxta pargutā. ḡ raritas .a. ⁊ q̄ntitas ꝯtiᵉ
erūt eq̄les: eo ꝙ ad raritatē nūc habitā ꝯti' eq̄lez hēbūt ꝓ-
portionē: ⁊ per ꝯñs equeue' maiorabit̃ raritas cū q̄ntitate:
q2 alr ꝯti' nõ manerent eq̄les. ⁊ ſi raritas cū vni' acqrit̃: ḡ
etiā vni' q̄ntitas. Si vo q̄ntitas ſit minor q̄ꝫ raritas ⁊ eque
pꝓportiõabilr maiorabunt̃. ḡ ſicut q̄ntitas raritate eſt mi-
nor: ita minꝰ acqret q̄ntitas q̄ꝫ raritas: ſicut ſi q̄ntitas ſit ma
ior raritate ⁊ ēt eque pꝓpor' maiorabunt̃ q̄ntitas ⁊ ipſa ra-
ritas: ſeqt̃ ꝙ ſic maior eſt q̄ntitas q̄ꝫ raritas: ita velociꝰ ma
iorabit̃ q̄ntitas q̄ꝫ raritas. cū ḡ raritas vni' maiorabit̃ ſm
tps: ſeqt̃ ēt q̄ntitatē eiꝰ vni' ſm tps eiꝰ maiorari. Et nõ hāc
eē maximā euidẽtiam pro pte iſta. ¶ Pro 2ᵃ pte 2ᵉ ptis
iſtiꝰ põnis ſic ar'. Sint .a. ⁊ .b. rara ineq̄lr. a. minꝰ rariꝫ. b.
magis rarū. ſit .a. gr̃a argᵗⁱ vt duo. ſi ḡ .b. ſit in duᵒ rarius q̄ꝫ
.a. ſeqt̃ ꝙ .b. erit rarꝫ vt q̄tuor: rareſiāt ḡ iſta duo. ſ. a. ⁊ .b.
equeue'. ⁊ ſeqt̃ ꝙ cū .a. fuerit vt q̄tuor .b. erit vt ſex. ⁊ ſi ſic
cū .a. fuerit in duᵒ rariꝰ q̄ꝫ nūc eſt: erit .b. in ſexqalterõ rariꝰ
q̄ꝫ nūc eſt. ⁊ pꝓpor' ſicut .a. ⁊ .b. erūt rariora: ita ēt erūt maio
ra. ḡ cū .a. fuerit in duᵒ maius q̄ꝫ nūc eſt erit .b. in ſexqalte-
ro maiꝰ q̄ꝫ nūc eſt. ⁊ in pnᵒ ſunt .a. ⁊ .b. eq̄lia. ḡ maiorē q̄ꝫ'ᵗᵉᵐ
acqret .a. q̄ꝫ .b. ⁊ .a. eſt denſiꝰ q̄ꝫ .b. ḡ denſius cū rarefactione
eq̄li maiorē acqret q̄ꝫ'ᵗᵉᵐ q̄ꝫ rariꝰ: ⁊ ſic ſeqt̃ põnez illaꝫ pro
3 põnez oi pte eē pꝓbatā. ¶ Contra illā põnez ar' ſic. ⁊ pᵒ ar' pmā
ptē 2ᵉ formalr repugnare ſic. Sit .a. minꝰ rarū ⁊ .b. magis
rarū: ⁊ rareſiāt eque' in īfiᵐ vel ad nõ gᵐ dẽſitatis qḋ idez
eſt. quo poſito ſeqt̃ ꝙ .b. citiꝰ deueniet ad nõ gᵐ dẽſitatis
q̄ꝫ .a. q2 ſi īdẽſiꝰ ⁊ remiſſiꝰ eq̄ue' remittat̃: ſtatiꝰ deueniet re
miſſius ad nõ gᵐ intẽſionis q̄ꝫ intẽſiꝰ. cū ḡ dẽſitas poſitiue
ſe hēat ſicut intẽſio ⁊ raritas puatiue ſic remiſſio: ſeqt̃ ꝙ ſi
rariꝰ eq̄ue' rareſiat cū dẽſiori, citiꝰ deueniet rariꝰ ad nõ gᵐ
denſitatis q̄ꝫ dẽſiꝰ. ⁊ q̄ꝫcito pciſe erit .a. ſub nõ gᵒ dẽſitatis
vel ipm .b. tācito erit infiᵗᵉ q̄ntiᵗᵗⁱˢ: ḡ citiꝰ erit .b. infiᵗᵉ q̄ntiᵗᵗⁱˢ
q̄ꝫ .a. q2 .b. erit ſub q̄ntiᵗᵉ īfiᵗᵃ qñ .a. erit ſub q̄ntiᵗᵉ finita: ⁊ .b. eſt
rariꝰ q̄ꝫ .a. ⁊ eq̄lis q̄ntiᵗᵗⁱˢ cū eo: ḡ rariꝰ maiorē q̄ntiᵗᵗᵉᵐ acqret
2° q̄ꝫ dẽſiꝰ ſibi eq̄le cū rarefactiõe eq̄li. ¶ Scḋo ad idez ar-
guit̃ ſic. cū ꝯdẽſatiõe eq̄li rariꝰ nõ minorē q̄ntiᵗᵗᵉᵐ deperdet
q̄ꝫ dẽſius. ḡ ecõuerſo p rarefactionē eq̄lez rariꝰ nõ miorē
q̄ntitatē acqret q̄ꝫ dẽſiꝰ. Intelligant̃ ſemp rᵒ eē eq̄lis q̄ntita-
tis. Sint vt pus .a. ⁊ .b. eq̄lis q̄ntiᵗᵗⁱˢ .a. dẽſiᵒ ⁊ .b. rariꝰ cõden-
ſent̃ equeuelociter in īfiᵐ. quo poſito ſi forēt duo eq̄lr re-
miſſa ſiue ineq̄lr que ꝯti' velociter intẽderent̃: equecito ad
intẽſionē īfinitā deuenirēt. ḡ per idez ſi dẽſitas ſe hꝫ poſi-
tiue ſicut intẽſio: ſeqt̃ ꝙ dẽſius equecito deueniet pciſe
ad gᵐ infiᵐ dẽſitatis ſicut rariꝰ: ⁊ cū deueniſſet ad gradum
dẽſitatis infinitū, erit vtrūqꝫ nõ q̄ntū. cū igit̃ .a. ⁊ .b. nūc ſint
eq̄les in quātitate ⁊ equeuelociter ꝯdẽſabunt̃ in infinitū:

ſeqt̃ ꝙ .a. equecito deueniet ad nõ gᵐ q̄ntitatis pciſe ſic .b.
cū ꝯdenſatiõe equali: ⁊ .a. eſt denſius .b. ḡ denſius cū ꝯden-
ſatione equali nõ dep̄det maiorē quātitatez q̄ꝫ rarius. ḡ ſi
equeuelociter rareſiat denſius ⁊ rariꝰ eq̄lis quātitatis non
maiorē quātitatē acqret dẽſius q̄ꝫ rariꝰ. ¶ Tertio ad idē 3°
arguit̃ ſic. Sint .a. ⁊ .b. equalis quātitatis .a. denſius ⁊ .b. ra-
rius vt pus: ⁊ ſit vtrūqꝫ eque remiſſuꝫ ſicut raruꝫ: ⁊ remit-
tat̃ vtrūqꝫ equeuelociter ad nõ gradum: non tñ equecito
rareſiant ita ꝙ ſemp maneāt eque remiſſa ſicut rara. quo
poſito .a. eſt minꝰ rarū q̄ꝫ .b. ⁊ vtrūqꝫ eſt ita remiſſuꝫ ſicut
rarū per caſum. ḡ .a. eſt minus remiſſuꝫ q̄ꝫ .b. ⁊ per ꝯñs .b.
eſt remiſſius .a. ⁊ equeuelociter cõtinue pciſe remittent̃.
ergo citiꝰ deueniet .b. ad nõ graduꝫ intẽſionis q̄ꝫ .a. ꝯña pꝫ
per hoc ꝙ .b. minꝰ diſtat a nõ gradu q̄ꝫ .a. remittat̃: ḡ .b. ad
nõ graduꝫ in hora: tūc ex quo .b. ꝯtinue erit eque remiſſuꝫ
ſicut rarū: ſeqt̃ ꝙ īfinite rarū erit .b. in iſta hora ⁊ .a. ſolum
finite rarū: eo ꝙ ꝯtinue .a. erit ſoluꝫ finite remiſſuꝫ. ḡ ſeqt̃
ꝙ in infinitū rarius erit .b. q̄ꝫ .a. in iſta hora: ⁊ nūc ſunt eq̄-
lis quātitatis. ergo in infinitū maioris quātitatis erit .b. q̄ꝫ
.a. in iſta hora: ⁊ per ꝯñs infinitā maiorez quātitatē acqret
.b. q̄ꝫ .a. ⁊ .b. eſt rariꝰ .a. ⁊ iſta ꝯtinue equeuelociter rareſiēt.
ergo poſitio falſa. Cõ ꝯtinue eq̄uelociter rareſient pꝫ: q2
vtrūqꝫ cõtinue erit eque rarū ſicut remiſſuꝫ. ḡ equeuelo-
citer vtrūqꝫ cõtinue rareſiet ſicut ipſuꝫ remittet̃. cū ergo
iſta duo ꝯtinue equeuelociter remittent̃: ſequit̃ ꝙ equeue-
lociter rareſient: ⁊ ſunt eq̄lis quātitatis .b. rarius q̄ꝫ .a. ergo
.b. maiorē q̄ntitatē acquiret q̄ꝫ .a. ḡ poſitio falſa. ¶ Quarto 4°
arguit̃ ſic. Iſta ponit ꝙ ex vniformi rarefactiõe alicuius
ſm ſe totū vniformiter acqrit̃ quātitas: ergo ecõuerſo ex
vniformi cõdenſatione vniformis ſeqt̃ dep̄ditio quātita-
tis. ꝯña tenet per hoc ꝙ vniformiter acqrere raritatez nõ
eſt aliud q̄ꝫ vniformiter dep̄dere denſitatez. Si ḡ ex vni-
formi rarefactione ſequit̃ vniformis acqſitio quātitatis.
ergo ex vniformi dep̄ditione denſitatis ſequit̃ vniformis
acqſitio quātitatis: ⁊ per ꝯñs ecõuerſo ex vniformi acqſi-
tione denſitatis ſequit̃ vniformis dep̄ditio quātitatis, ⁊ ex
difformi difformis. Pono ergo ꝙ .a. cõdenſet̃ ad nõ q̄ntitā-
ita ꝙ quātitas vniformiter deperdat̃ ad nõ graduꝫ quā-
titatis: tūc iuxta argūta denſitas vniformiter acqrit̃. po-
natur ergo ꝙ hoc fiat in hora: cū ergo totū dep̄det̃ ad non
graduꝫ per huius cõdenſationē ⁊ pꝓportionabilr ſicut erit
minoris quātitatis ita erit denſius. ergo īfinite denſuꝫ hoc
erit ⁊ denſitas vniformiter acqrit̃: ergo a gradu ſub quo
nūc eſt denſitas ad graduꝫ infinitū denſitatis eſt latitudo
tantūmodo finita. ꝯña pꝫ per hoc ꝙ latitudo infinita nõ
põt vniformiter acqri in hora: ſed nullius poſitiue latitu-
dinis eſt ab aliquo gradu vſqꝫ ad aliquē graduꝫ īfiᵐ ſolū
latitudo finita. ḡ latitudo dẽſitatꝫ ſe nõ hꝫ poſitiue. ⁊ ſi ſic,
ſequit̃ vnā partē illius põnis alteri repugnare.

4° pō ⁊ pꝓpria. **Et ideo ponit̃** pō 4ᵃ ⁊ vltᵃ ponẽs ꝙ denſitas ſe habet poſitiue ⁊ ex vniformi ra-
refactiõe alicuius per tempꝰ ſm ſe totū difformiter acqui
ritur quātitas: ⁊ ſi denſius ⁊ rariꝰ eq̄lis q̄ntitatis equeuelo
citer rareſierēt: rariꝰ maiorē quātitatē acqreret q̄ꝫ dẽſius.
Pro pma pte huiꝰ põnis ſunt argumẽta que ꝯ ſcḋaꝫ poſi-
tionē ſunt adducta. Pro ſcḋa pte illius põnis ſūt oīa argu
menta que cõtra põnez imediate pcedentē ſunt adducta.
¶ Itē pro iſta ſic arguit̃. Si raritas ſe hꝫ puatiue ſicut
remiſſio: ſequit̃ ꝙ inter oēm graduꝫ raritatis ⁊ ſuū duplū
eſt in duplo minor latitudo q̄ꝫ inter ipſuꝫ ⁊ gradum ſub-
dupluꝫ raritatis: ſicut ſatis arguitū eſt vbi tractatum eſt de
intẽſione ⁊ remiſſione. Si ḡ rariꝰ ⁊ denſiꝰ equeuelocit̃ ra-
reſiāt: ſeqt̃ ꝙ rariꝰ citiꝰ deueniet ad graduꝫ dupluꝫ rarita
tis q̄ꝫ denſius: ⁊ ſicut foret rariꝰ ſic maioris quātitatis fo-
ret. ergo citiꝰ foret rarius duple quātitatis q̄ꝫ denſius.

Si ergo in pnº forent eq̄lia:seq̄ꝫ φ densius minorē q̃tita-
tem acq̄ret q̃ rariꝰ. ¶ Contra istam pōnē sunt argª que
pro alijs pōnibꝰ sunt adducta. ¶ Cōtra ēt istā pōnē arᵗ
sic. Sit.a.rariꝰ q̃.b.ꝛ rarefiāt equeueᵗ: sint tñ eq̄lis q̃tita-
tis in pnº:tūc si.a.acq̄ret maiorē q̃titatē q̃.b.ꝛ raritas non
est aliud nisi remota iacētia ptiū abinuicē. g̃ maiorem re-
motā distantiā punctoꝝ abinuicē acq̄ret.a.q̃.b.ꝛ per ꝯñs
maiorē raritatē.ꝯñs fl̃m:eo φ equeueᵗ rarefient.g̃ ꝛc̃.

Pro istis sustinēda est vltia pō:que.s. ponit φ den-
sitas se h3 positiue: ꝛ φ ex vniformi ra-
Ad pm refactiōe ꝛc̃.seq̄ꝫ difformis acq̄sitio q̃titatis. ¶ Jō ad pm
argm qº argᵗ pro zª pōne.s. φ raritas se h3 positiue cuz arᵗ.
φ inter oēz gm raritatis ꝛ gm infim raritatis est latitudo ifi-
nita.negat id:ꝛ tūc qñ arᵗ ꝛ ponit φ aliqd rarū rarefiat in
infim:ꝛ querit nūqd raritas sit tanta sic q̃titas vel maior
vel minor:dī φ raritas p̄uatiue ꝯsiderata nulli positio fz
eq̄litatē vel ineq̄litatē cōparat vt de intēsione ꝛ remissio-
ne est p̄dictū:ideo negāda est eiꝰ diuisio pro oī eiº pte:ꝛ id
argm fundat super h̄ φ raritas foret maior vel minor vel
eq̄lis illi q̃titati:iō illud argm nō p̄cedit ꝯ pmā ptē illius
Ad aliō pōnis. ¶ Tūc ad arm ꝯ zam ptē illiꝰ pōnis cū arᵗ pro zª pte
3ª pōnis:ꝛ ponit φ.a.sit vnū rarū vniᵗ rarefactū fm tpa ꝛ
fz subis:ꝛ arguit φ si raritas ꝛ sua q̃titas in gradu aliquo
corrn̄deāt ꝛ eque p̄porcionabilr maiorat raritas cū q̃ti-
tate:ꝛ raritas vnifoᵗ maiorat. g̃ q̃titas vnifoᵗ maiorat:
¶ Jtē si q̃titas sit maior vel minor ista raritate illō seq̄ꝫ
φ ibi arᵗ. Dicit g̃ φ raritas nō corrn̄det sue q̃titati in gº:ꝛ
nec est ea maior nec ēt minor vt p̄dictū est:ꝛ id argm fun-
Ad vltm dat supra istā diuisionē:ꝛ ideo nō p̄cedit. ¶ Ad vltm arm
qñ arguit ꝯ illā pōnē sic:si.a.acq̄reret maiorē q̃titatē.b.
ꝛ est eq̄le.b.g̃ maiorē raritatē acq̄ret.a.q̃.b.negat ꝯñā:qꝛ
raritas nō solū seq̄ꝫ remotā iacētiā punctoꝝ abinuicē:sed
seq̄ꝫ remotionē pūctoꝝ cū mā p̄porcionata vel in cōpa-
tione ad mā3:vt si sint duo eq̄lia:ꝛ vnū3 hēat plus de mā
q̃ aliud:id qō plus h3 de mā est densiꝰ sicut est de pedali
ignis ꝛ de pedali terre:ꝛ ideo l3 duo eq̄lia rarefiāt p totū
ꝛ vnū maiorē q̃titatē acq̄ret q̃ reliquū nō seq̄ꝫ φ ipsum
maiorē acq̄rat raritatē nisi addat φ mōe illoꝝ forent eq̄-
les.sed in casu posito.a.h3 minorē mā3 q̃.b.eo φ est rariꝰ
q̃.b.ꝛ eq̄lis q̃titatis cū eo.ideo l3.a.acq̄rat maiorē q̃tita-
tem q̃.b.nō seq̄ꝫ φ maiorē raritatē acq̄rat.a.q̃.b.ꝛ sic nō
ꝯ pōnē p̄cedit argm ꝯ illaz pōnē. ¶ Alr arᵗ ꝯ illā pōnē vltimā:
qꝛ ex illa seq̄ꝫ id incōueniēs qō seq̄ꝫ ex oībꝰ p̄oribꝰ pōni-
bus.s.φ aliqd est rarū vnifoᵗ difforme nulli gradui rari-
tatis corrn̄dens. Sit eni3.a.vniformiter difforme rarū ter
minatū ad nō gm raritatꝭ:tūc φ id nulli gradui corrn̄deat
p̄bo:qꝛ si est ifinite dēsū:ergo nō est rarū. Et φ sit ifinite
densū p̄bo:qꝛ diuidat in ptes p̄porlis versus extremum
remissius:tūc pma ps p̄porlis est aliq̄lr dēsa.zª in duplo
densior.ꝛ 3ª in q̄druplo densior:ꝛ sic in ifinitū:ꝛ eo φ se h3
densitas positiue.g̃ totū est ifinite densū. ꝯñā ō intēsione
tenet.ꝛ añs pz:qꝛ pª ps p̄porlis est aliq̄lr rara: ꝛ zª in du-
minꝰ rara ꝛ sic deinceps:ꝛ sicut aliq̄ ps est alia minꝰ rara:
ita est ipsa eadem densior per p̄argita. g̃ pª ps p̄porlis est
aliq̄lr densa.zª in duplo densior ꝛ sic deīceps. Hoc sic cō-
firmat.mā.a.est infinita ꝛ q̃titas finita: solū g̃ totū.a.est
infinite densū. p̄bo ꝯñtiā:qꝛ raritas ꝯsequit remotiones
punctoꝝ abinuice3 cū mā p̄porcionata. g̃ sicut mā maior
est in eq̄li quātitate ita densitas est maior.si g̃ mā sit infim
ꝛ q̃titas solū finita:seq̄ꝫ φ totū est infinite densū.sed sic
est de.a.g̃.a.est infinite densū: ꝛ φ.a.sit finite q̃titatis pz
per casuz. Et φ mā sit ifinita p̄bat. Naz tanta est mā scōe
ptis p̄porlis sicut pª. p̄bo:qꝛ zª pars proporlis est in duplo
densior q̃ est pª:ꝛ in duplo minoris q̃titatis q̃ est pª:ergo
in illa est eq̄lis mā sicut in pª. ꝯñia pz:qꝛ si zª pars p̄porlis
rarefiet ad suū duplū in fine erit eq̄lis q̃titatis cū pma ꝛ
eq̄lis raritatis.g̃ mā sua erit eq̄lis mãe pª ptis p̄porlis:sed
nō acq̄ret aliquā mā3 per rarefactionē. g̃ nūc est mā scōe
ptis p̄porlis tanta sicut mā pª ptis p̄porcionalis: ꝛ per idē
mā 3ª ptis p̄porcionalis est tāta sicut est mā zª ptis p̄por
tiōalis ꝛ sic in ifim.g̃.a.ꝯtinet ifinitas mās eq̄les nō cōican
tes.ergo mā ipsius.a.est infinita: ꝛ.a.est finite q̃titatis so-
lum:g̃.a.est infinite densū:ꝛ per ꝯñs nō est rarū. Ex istis
sequit ista ꝯclō φ aliqd est rarū qō nō est rarum:qꝛ.a.est
rarū:qꝛ est vnifoᵗ difforme rarū.ꝛ nō est rarū:qꝛ est infi-
nite densū. ¶ Pro istis negat vtraq3 ꝯclō:ꝛ tūc ad casū Rñsio.
positū φ.a.sit vnū vnifoᵗ difforme rarum terminatū ad
nō gradum raritatis.negat casus. naz ex quo raritas se h3
p̄uatiue:seq̄ꝫ vt argutū est φ ab oī gradu raritatꝭ vsq3 ad
nō gradū raritatis est latitudo ifinita:qꝛ nō gradus rari-
tatis est ifiniꝰ gradus densitatis. sed ipoēe est φ aliqd sit
vniformiter difforme aliquale mediāte latitudine ifinita:
ideo casus est ipossis: sic est ipoēe φ aliqd sit vniformiter
difforme remissiū ad nō gradū remissionis terminatū:qꝛ
illud poneret φ aliqō foret vniformiter difforme intēsū
ad gradū ifim terminatū qō tñ icludit ꝯdictionē:iō arm nō
p̄cedit qō fundat supra impoēe ꝛc̃.

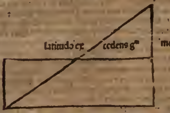
His expeditis seq̄ꝫ tangere dubia.nūqd oē den-
sum difforme cuiꝰ vtraq3 medie-
tas est vniformis vel ēt vnifoᵗ difformis suo gradui meº
corrn̄deat:ꝛ ide3 tāget de raritate. ¶ Qd hoc nō sit veru3 Ad pte3
multiplr arguit. Pmo sic. Sit.a.vnū tale difforme dēsū negam.
vl rarū:cuiꝰ vtraq3 medietas est vniformis ꝛ rarefiat me-
dietas densior ad illū3 gm mediū:ꝛ cōdensef rarior ad eū-
de3 gm:quo posito arguit sic.per maiorē ptē.a.ꝯtinue erit
dep̄ditio densitatis q̃ acq̄sitio: ꝛ equeuelocr erit dep̄ditio
sicut acq̄sitio:g̃ seq̄ꝫ φ totū rarefiet.ꝯñā pz:sicut de calido
vel frido vel aliquo tali. naz seq̄ꝫ per maiorē ptē intēdef
caliditas q̃ sit ps per quā remittet:ꝛ tantū intēdit q̃tū re-
mittit hoc in quo est ista caliditas:g̃ totū calefit:vel saltem
seq̄ꝫ φ caliditas intēdef.naz ad hoc φ caliditas existēs in mi
nori pte ꝯtinue restauret remissionē factā in maiori parte
req̄rit φ ipsa ꝯtinue intēdat:pz inspicieti dicta in caplo ō
intēsione.ꝛ añs arguit. Qꝛ eni3 sit eq̄lis dep̄ditio sicut acq̄
sitio raritatis tenet per hoc φ vna medietas eq̄lr distat a
gradu meº inter illas medietates sicut alia: ꝛ vna vnifor-
miter remittef ad illū3 gm:ꝛ alia vniformiter intendef in
eode3 tpe ad eundē gradū vt suppono: ꝛ φ per maiorem
partē ꝯtinue erit intēsio raritatis q̃ dep̄ditio pz.nam illa
pars que nūc est medietas dēsior ꝯtinue rarefiet. g̃ ꝯtinue
erit maior q̃titas q̃ nūc est:ꝛ alia medietas ꝯtinue ꝯden-
sabit.g̃ iª ꝯtinue erit minoris q̃titatis q̃ nūc est:ꝛ per istā
ptē que nūc est medietas densior solū erit rarefactio ꝛ p
aliā cōdensatio.g̃ per maiorē ptē ꝯtinue erit dep̄ditio den
sitatis q̃ acq̄sitio raritatis.g̃ seq̄ꝫ φ totū ꝯtinue rarefiet ꝛ
in fine corrn̄debit solū illi gradui medio densitatis:ergo
nūc corrn̄det gradui intēsiori densitatis q̃ est ille gradus
medius. ¶ Scōo ad idē sic. Sit vna medietas.a. rara vt zº
xij.ꝛ alia vt duo:tunc si corrn̄deat gradui meº:seq̄ꝫ φ per
solā rarefactionē ꝛ motū ꝯñtē fiet aliqd densius q̃ nūc
est:qꝛ ponit φ medietas que est rara vt duo fiat in duplo
rarior.s.g̃du vt.iiij.tunc sic totū.a.corrn̄det gradui vt.vij.
qꝛ.vij.est gradus mediꝰ. deducat g̃ oīs alius motꝰ preter
motū ꝯñte3 istā rarefactionē.s.que est acq̄sitio quātitatis:
tunc ibi nō est alius motꝰ nisi motꝰ rarefactionis ꝛ motus
ꝯñs ipsā:ꝛ tñ totū ꝯdensabit. Hoc sic arguit. sit nūc totū
bipedale tunc in fine erit medietas rarefacta bipedalis
quātitatis.s.in sexq̄altero minor toto vt pz:eo φ p̄porcio-
nabilr sicut aliqd sit rariꝰ:ita sit maioris quātitatis. g̃ de-
nolatio illiꝰ raritatis quo ad totū erit subsexq̄altera ad gm
istum

ſitũ vt 4^{or}:⁊ per ↄ̃ñs erit minor ꝗ̃ eſt gradus vt 3^{a}:⁊ alia pars.ſ.rara vt.12.ſufficiet totũ denolare g^{m} ſolũ vt 4^{or}:q2 illa pars erit tũc 3ª pars tot^{9}.ģ totũ correſpondebit gradui remiſſiori ꝗ̃ eſt gradus vt.viij.⁊ ꝑ ↄ̃ñs ↄ̃dẽſabit.⁊ ↄ̃ñs ad qđ deducit̃ eſt ĩpoſſe.Si.n.erit ſolũ rarefactio ꝑ totũ/totũ dꝫ
3° rareſieri ⁊ nõ ↄ̃dẽſari.¶ 3° ſic arg^{r}. Sit.a.vnũ tale:cuius vna medietas ſit rara.c.g^{u}:⁊ alia g^{u} in duplo remiſſiori ꝗ̃ eſt.c.gradus:⁊ ſit.b.vnũ aliud:cui^{9} vna medietas ſit vniformis.c.g^{u} rara:⁊ alia medietas ei^{9} ſit rara g^{u} in duplo remiſſiori ꝗ̃ eſt medietas min^{9} rara.a.⁊ ſic de alijs infi^{tum}:ſic ꝙ cuiuſlibet t^{ij} ſit vna medietas vni^{r} rara.c.g^{u}:⁊ cuiuſlibet poſterioris ſit medietas alia in duplo min^{9} rara ꝗ̃ eſt medietas min^{9} rara imediate ꝑcedẽtis:⁊ ſint oĩa eq̃lia q̃titatiue.ſ.pedalis q̃titatis:⁊ capio g^{m} ſubduplũ ad.c.qui ſit d.⁊ tũc ſic ar^{r}. Cuiuſlibet illoꝝ eſt me^{tas} vna rara.c.g^{u}:⁊ alia certo g^{u} remiſſiori.ģ ſi q̃libet illorũ correſpondeat g̃dui medio iter ei^{9} medic^{tes}:ſeq̃t̃ ꝙ q̃libet illoꝝ gradui intẽſiori ꝗ̃ eſt.d.correſpondet.qđ ſic arg^{r}:q2.c.gradus eſt duplus ad.d.g^{m}:⁊.c.gradus nõ eſt duplus ad g^{m} me^{m} iter ipm ⁊ aliquẽ aliũ g^{m} q̃cũq3 ſit ille.ģ q̃libet talis gradus eſt intẽſior.d.g^{u}. ↄ̃ña ⁊ maior patẽt.⁊ minor arg^{r}:q2 oẽ cõpo^{m} ex duob^{9} inęq̃lib^{9} eſt duplũ ad mediũ iter illa.⁊ cũ cõpo^{m} ex.c.gradu ⁊ q̃cũq3 alio remiſſiori eſt ꝑciſe duplũ ad mediũ iter illos gradus:ſeq̃t̃ ꝙ.c.g̃dus nõ erit duplus ad illũ g^{m}.ↄ̃ña tenet ⁊ añs ꝓbat̃ vt argutũ eſt in ↄ̃ne 3^{a} de motu locali:⁊ poſtea arguet̃ in de inductiõe g̃dus ſũmi.¶ Ex his ģ ſeq̃t̃ ꝙ g̃dus medi^{9} iter medic^{tes} intẽſiorẽ in raritate cuiuſlibet illoꝝ ⁊ medic^{tes} remiſſiorẽ eſt intẽſior.d.g^{u}.ſi ģ tale rarũ gradui ſuo medio correſpondeat.p3 ꝙ q̃libet illoꝝ eſt rarius ꝗ̃ ſi eẽt vniforme.d.g̃du.ſ3 ↄ̃ñs falſum.ģ ↄ̃clo falſa.falſitas ↄ̃ñtis p3.nã q̃cũq3 mã data plus ↄ̃tinet aliqđ illoꝝ:⁊ q̃libet illoꝝ eſt pedalis q̃titat̃:ģ ĩfinite modice rarũ eſt aliqđ illoꝝ.ↄ̃ña tenet iuxta põnẽ ponẽtẽ penes qđ attẽdit̃ raritas.⁊ añs arg^{r}. Nã medietas min^{9} rara.c.aliqđ ↄ̃tinet de mã:⁊ medietas minus rara.b.in duplo plus de mã:q2 eſt in duplo dẽſior in q̃titate eq̃li ⁊ tertij illoꝝ eſt medietas minus rara ↄ̃tinens de mã in duplo plus ꝗ̃ medietas correſpondẽs.b.q2 eſt illa in duplo dẽſior:⁊ ſic in ĩfi^{m}.ģ ĩfinitã mãm ↄ̃tinet aliqđ illoꝝ:⁊ q̃libet illoꝝ eſt pedalis q̃titatis:ģ infinite dẽſum eſt aliqđ illoꝝ:⁊ ꝑ ↄ̃ñs nõ eſt verũ ꝙ q̃libet illoꝝ correſpondeat gradui medio inter ei^{9} medic^{tes}:⁊
4° et gradui intẽſiori.d.ģ ↄ̃clo falſa. ¶ 4° ſi id ſit verũ de raro difformi ponat̃ ꝙ id ſit.a.cui^{9} medietas min^{9} rara rareſiat ad illũ g^{m} mediũ:⁊ alia medietas ↄ̃dẽſet̃ ad eũdẽ g^{m}:⁊ ſit.b.medietas minus rara:⁊.c.alia medietas.tũc arguit̃ ſic. Raritas.b.ẽ minor raritate.c.⁊ eq̃uelo^{r} intẽdet̃ raritas b.ſicut raritas.c.remittet̃:ģ veloci^{9} ꝓportionabil^{r} maiorabit̃ raritas.b.ꝗ̃ raritas.c.remittet̃.ↄ̃ña tenet:eo ꝙ inter g^{m} mediũ iter duos gradus ad g^{m} remiſſiorẽ iſtoꝝ eſt maior ꝓpor^{o} ꝗ̃ eſt gradus intẽſioris iſtoꝝ ad illũ g^{m} mediũ:⁊ totũ añs eſt poſſibile.cũ3 ģ eq̃ue ꝓportionabil^{r} ↄ̃ti^{e} maiorabit̃ q̃titas cũ raritate:ſeq̃t̃ ꝙ veloci^{9} ꝓportionabil^{r} ↄ̃tinue maiorabit̃ q̃titas medic^{tis}.a.que rareſiet ꝗ̃ minorabit̃ q̃titas medic^{tis} ↄ̃dẽſante:⁊ ꝑ ↄ̃ñs velocius ſimpl^{r} maiorabit̃ q̃titas vni^{9} medietatis ꝗ̃ minorabit̃ alterius:et q̃ iſte medietates nũc ſunt eq̃les.ↄ̃ña ſatis p3:⁊ ſi ſic,ſeq̃t̃ ꝙ q̃titas in fine ip^{9}.a.erit maior ꝗ̃ nũc eſt in mã equali.ģ tũc erit rarius ꝗ̃ nũc eſt:⁊ ꝑ ↄ̃ñs cũ tũc erit in gradu illo medio:ſeq̃t̃ ꝙ nũc correſpondet gradui remiſſiori ꝗ̃ eſt i^{r} gradus medi^{9}.¶ Ideo forte negat̃ ↄ̃ña:q2 nõ in toto tpe medio totũ.a.deberet rareſieri:ſed.a.aliq̃n ſaltẽ dꝫ rareſieri. Hoc nihil facit ad ꝓpo^{m}.ſi.n.cõtinue rareſieret:ſeq̃t̃ ꝙ in fine erit rarius ꝗ̃ nũc eſt:⁊ tũc erit ſub gradu medio:ergo nunc correſpondet gradui remiſſiori gradu medio. ¶ Illa remiſſio ſimpl^{r} excludit̃.Sit ergo.a.correſpondeat gradui medio:

ſeq̃t̃ ꝙ ipm erit tãte q̃ntitatis ſicut foret,vnũ in gradu illo medio equal^{r} hñs de mã ſicut h3.a. Et ſi ſic ſit.d.tale vniforme in gradu medio tãtũ de mã hñs ſicut.a.⁊ equalis q̃ntitatis cũ.a.⁊ arguit̃ hoc eẽ falſum:q2 in fine.a.erit vniformiter rarũ gradu medio:⁊ tũc erit maioris q̃titatis ꝗ̃ nũc eſt.d.q2 maioris q̃ntitatis ꝗ̃ nũc ipm eſt.cũ3 ģ ipoſſe eſt capere duo vniformiter rara,eodẽ3 gradu equal^{r} hñtia de mã:q̃rũ vnũ ſit maioris q̃titatis ꝗ̃ reliquũ:⁊.a.in fine erit vniforme gradu medio.ģ nũc correſpõdet gradui remiſſiori gradu medio:⁊ ꝑ ↄ̃ñs nõ medio:qđ tñ fuit poſitũ. ¶ Vel ſic arguit̃. Ponat̃.b.eẽ eq̃lis q̃titatis cũ.a.hñs equal^{r} de mã ſic haber.a.⁊ vniformiter rarũ:tũc.a.b.ſunt eque rara iuxta põnẽ3 ponẽtẽ penes qđ attẽdit̃ raritas:⁊.b.eſt vniforme gradu remiſſiori ꝗ̃ gradu medio:ģ a.nõ correſpõdet gradui iſti medio. Añs arguitur:q2 in fine erit.a.rarũ gradu iſto medio:⁊.b.tũc erit minus rarum ꝗ̃ tũc erit.a.q2 minoris q̃titatis cum mã eq̃li:vt ꝑdicit̃:ģ.b.nũc eſt rarũ gradu remiſſiori medio.ↄ̃ña tenet per h medium ꝙ ĩpoſſe eſt duo eẽ vniformiter rara eodẽ3 g̃du ineq̃lia in q̃titate equal^{r} hñtia de mã.ſeq̃t̃ ģ cum.a.correſpõdet b.vniformi ꝙ ipm correſpondeat gradui remiſſiori medio.ģ ↄ̃clo falſa. ¶ Itẽ 5° põt argui ↄ̃tra illã. Sit.a.vniformiter 5°
difforme rarũ ad nõ gradũ terminatũ.⁊ arguit̃ ꝙ id non correſpõdet gradui medio.ipm.n.eſt ĩfinite dẽſu3:eo ꝙ in infinitũ ↄ̃tinet de mã ⁊ eſt finite quantitatis:vt argutũ eſt in penultimo arg^{to} ↄ̃tra põnem ponẽtẽ ꝙ raritas ⁊ denſitas ſe hñt poſitiue:apparet ģ id ꝓpoſitum fore falſum.

Q̃đ tamen id ſit verũ arguit̃. Et pono in caſu particulari de denſo difformi:cuius vtraq3 medietas eſt vniformis:⁊ ſit.a.tale:cui^{9} vna medietas ſit Ad ptes aſſu^{mptas}.
denſa vt.iiij.⁊ alia medietas vt.viij.⁊ ſit q̃titas vtriuſq3 medic^{tis} tripedalis:⁊ remittat̃ denſitas illi^{9} medietatis vt octo vſq3 ad ſex:qui eſt gradus medi^{9} inter illas medic^{tes}:⁊ intẽdat̃ eq̃uelo^{r} dẽſitas alteri^{9} medietatis ad gradũ illum vt ſex:⁊ tũc ſic arg^{r}. Medietas dẽſior.a.fiet in ſexq̃altero minus denſa ꝗ̃ nũc eſt:eo ꝙ iter gradũ vt octo ⁊ g^{m} vt ſex eſt ꝓportio ſexq̃altera:⁊ ꝓportionabil^{r} ſic dẽſitas iſta fiet minor:ita q̃titas iſta erit maior.ģ q̃titas iſti^{9} medietatis tũc erit in ſexq̃altero maior ꝗ̃ nũc eſt:⁊ nũc eſt iſta tripedalis q̃titatis:ģ tũc erit q̃dripedalis quãtitatis. Sil^{r} alia medietas fiet in ſexq̃altero denſior ꝗ̃ nũc eſt:eo ꝙ.iiij.ad ſex eſt ꝓportio ſexq̃altera:ģ illa fiet in ſexq̃altero minoris q̃titatis ⁊ nũc eſt tripedalis q̃titatis:ģ tũc erit bipedalis q̃titatis ſolũ ⁊ alia medietas q̃dripedalis q̃titatis:vt argutũ eſt.ģ totũ tunc erit ſex pedũ:⁊ ꝑ ↄ̃ñs tãte q̃titatis ſicut nũc eſt in eadẽ mã:ģ tũc erit eque dẽſum ſicut nũc eſt.ↄ̃ña tenet iuxta põnẽ3 ꝑdictã:⁊ ſi ſic ſeq̃t̃ ꝙ totũ correſpõdet tali gradui. ¶ Pro iſto forte dr̃ negãdo ↄ̃ñtiã vl^{tam} in tali caſu:q2 põt dici ꝙ totũ rareſiet:q2 ꝑ maiorẽ ptẽ erit rarefactio ꝗ̃ ↄ̃dẽſatio. ¶ Cõtra.⁊ ſi hoc dicat̃ arg^{m} ſatis ꝑcedit. Sit.b.vniforme rarũ eq̃lis q̃titatis cũ.a.difformi:⁊ hñs equal^{r} de mã ſicut.a.tũc.b.eſt eque dẽſu3 cũ.a.q2 eq̃lis q̃titatis hñs equal^{r} de mã:⁊.b.eſt dẽſu3 g^{u} iſto medio:ģ dẽſitas.a.correſpõdet gradui ſuo medio.ↄ̃ña ſatis p3 et maior ſil^{r}:⁊ minor ſic arg^{r}.b.eſt eque dẽſu3 ſicut erit.a.in fine temporis ⁊ tũc erit.a.vniforme vt ſex.ģ ⁊c. Añs arguit̃:q2.b.eſt nũc eq̃lis q̃titatis ſicut tũc erit.a.⁊ equal^{r} h3 de mã ſicut tũc habebit.a.ģ.b.nũc eſt eque dẽſu3 ſicut tũc erit.a.ↄ̃ña ⁊ maior ſatis patẽt:eo ꝙ.b.nũc eſt tãte q̃titatis ſicut eſt.a.⁊.a.eſt tante q̃titatis ſicut erit in fine:⁊ minor ſil^{r} p3:q2.b.tãtũ h3 de mã ſicut h3.a.⁊ nihil de mã acq̃ret.a.nec deꝑdet in toto tpe.p3 ģ ꝙ.b.eſt dẽſu3 g^{u} vt ſex:⁊ eque dẽſu3 eſt.b.ſicut eſt.a.ģ ſeq̃t̃ ꝙ dẽſitas.a.ſuo medio g̃dui correſpõdet.⁊ ſic in ei alio caſu inuenies ꝑ calculatiões. Ad idẽ ģ fiat arg^{m} gñale.ſit.a.tale dẽſu3 difforme:cuius vtraq3 medietas eſt vniformis:tũc

medietas dēſioꝛ excedit medietatē rarioꝛē ꝑ certū exceſſum in dēſitate ⁊ mā. capiatꝰ ḡ exceſſus māe ⁊ ē dēſitatis in tª q̄titate: nūc ſi medietas exceſſus eēt ablata ab vna medietate ⁊ addita alteri medietati ꝯſuata q̄titate illiꝰ māe ⁊ ē ptis reſidue māe totū nec ꝯdēſaret nec rareſieret: qꝛ tota ista mā ꝯtiª eēt in quātitate eq̄li: ⁊ in fine totū eēt vniforme gª medio: eo ꝙ medietas exceſſus eēt ablata ab vna medietate ⁊ addita alteri: ḡ nūc totū corridet illi gradui medio. Uel ſic argr̄. dēſitati medietatis dēſioꝛis in quātitate eiꝰ aliq̄ mā corridet: vt notū eſt: ḡ ⁊ iſti medietati exceſſus in eadē quātitate certa mā corridet que ſit .c. nūc auferatꝰ .c. mā a medietate denſioꝛi in iſta quātitate: ⁊ addatꝰ alteri medietati q̄ſi per coextēſionē: ⁊ habeat reſiduū mā vtriuſq; medietatis q̄titatē pſtinā: ⁊ ſeqꝛ ꝙ totū nec ꝯdēſabitꝰ nec rareſiet: eo ꝙ tota quātitas eiꝰ ꝯtiª manebit tāta ſicut eſt nunc ꝑ caſū cū mā eadē: ⁊ in fine totū erit dēſuꝫ gª iſto medio. ḡ ſeqꝛ nūc ꝙ totū corridet iſti gradui medio. Et ſi caſus negatꝰ argr̄ cōditionalr̄ ſic. Si medietas exceſſus dēſitatis cū mā ſibi corridēte in quātitate tāta ſicut eſt medietas .a. corridēs eēt ablata ⁊ coextēſa cū alia dēſitatis medietate totū nec rareſieret nec cōdēſabitꝰ ⁊ fieret vniforme tali gª medio: ḡ nūc tali gradui medio corridet. ꝯña cū añte ꝑ ꝑcedētia ſatis pꝫ. ¶ Itē argr̄ de vniforr̄ diffoꝛmi denſo. Sit eiꝫ .a. vniforr̄ diffoꝛme dēſuꝫ ſiue terminatū ad gᵐ aliquē ſiue ad nō gᵐ in extremo remiſſioꝛi: tūc ſic argr̄. Medietas dēſioꝛ excedit gᵐ mediū ꝑ latitudinē dēſitatis ab tª ad nō gᵐ terminatā: ⁊ ſit vtraq; medietas grā argᵗⁱ pedalis quātitatis: tūc illi exceſſui in pedali q̄titate certa mā corridet: que ſi eēt ablata a medietate dēſioꝛi ⁊ addita medietati rarioꝛi: ita ꝙ extremū intēſius illiꝰ latitudinis denſitatis exceſſus eēt ad extremū rarius medietatis rarioꝛis: ⁊ non gradus verſus pūctū mediū totū fieret vniforr̄ rarū gª tª medio vt ꝯſtat: ⁊ totū nec rareſiet nec ꝯdēſabitꝰ: eo ꝙ tota quātitas ꝯtiª eēt tāta ſicut nūc eſt cū idētitate māe: ḡ nūc totū iſti gradui medio correſpōdet: qḋ fuit ꝓbādum.



Nota ¶ Pro quo eſt notādū ꝙ ſi ab aliq̄ dēſo certe q̄titatis eſſet ablata aliq̄ certa pars illiꝰ dēſitatis ꝑ totū cū mā ſibi in illa q̄titate corridēte: totū reſiduū manebit eq̄lis q̄titatis: vt ſi eēt pedale dēſum aliq̄ gª ⁊ medietas dēſitatis ꝑ totū eēt ablata: ita ꝙ reſultaret vnū in duplo minꝰ dēſuꝫ ⁊ medietas māe eēt ablata q̄titas reſidue māe: tūc eēt tāta ſicut nūc eſt totꝰ māe. ſicut .n. iſti toti māe in q̄titate tota illa dēſitas corridet: ita medietati eiuſdē māe cū quātitate eq̄li medietas dēſitatis corridet. Habeat eiꝫ .a. aliquā māꝫ in pedali quātitate: ⁊ ſit .b. eque dēſuꝫ cū .a. cū mā ſubdupla. ⁊ pꝫ ꝙ .b. eſt in duplo minoꝛis quātitatis q̄ .a. iuxta ꝓpoſita. Si ḡ .b. rareſiet ad q̄titatē duplā. ſ. ad q̄titatē .a. ipm fieret in duplo minꝰ dēſum q̄ .a. ḡ medietas illiꝰ dēſitatis in quātitate eq̄li māe ſubduple corridet ſicut denſitati toti in illa quātitate tota mā corridet. pꝫ ḡ ꝯclō ꝓbāda. ſeqꝛ ḡ ꝙ omne dēſuꝫ ⁊c̄. ſuo gradui medio corridet. ¶ Itē argr̄ de raritate. Si .n. dēſuꝫ diffoꝛme ſuo medio gradui corridet: ſeqꝛ ꝑ idē de raro: qꝛ nō differūt īter ſe realr̄ raritas ⁊ dēſitas. poſitio tñ que ponit ꝙ tā raritas q̄ dēſitas ſe hꝫ poſitiue ꝯcederet h̄ de dēſo tali qḋ corridet gradui medio ⁊ negaret de rarioꝛi: dr̄ ꝙ rarū hꝫ diffoꝛme gradui remiſſioꝛi raritatis q̄ eſt gradus mediꝰ corridet: qꝛ ſi reduceretꝰ ad gᵐ illū mediū totū in fine eēt maioꝛis quātitatis q̄ in pñª: vt argr̄ in argᵗᵒ 4ª ꝯtra iſtā ꝯnēm: ⁊ ſic in fine eēt rarius q̄ in pñª. Hec tñ poſitio in ꝑcedētibus improbata vbi argr̄ ꝙ raritas poſitiue ſe nō pōt habere.

Ideo dicitꝰ

ꝯcedēdo ꝯnēm dr̄ ꝙ latitudo dēſitatis ⁊ raritatis realr̄ eadē eſt: ⁊ ē dēſitas ſe hꝫ poſitiue. ⁊ ideo vniforr̄ maioꝛatꝰ denſitas que ſignatꝰ ꝑ numerū aliquē: ⁊ multiplicatio nūeri vt ſi nūc eēt dēſitas vt 4ᵒʳ: ⁊ fieret dupla illa fieret vt octo. ⁊ eꝫ mō de raritate. nā ſi raritas eēt vt 4ᵒʳ: ⁊ duplaretꝰ in fine ſignaretꝰ ꝑ duo: ⁊ ſic de oī alio poſitiuo ⁊ ſuo ꝑuatiuo eſt intelligendum: vt appet. vbi tractatꝰ de intenſiōe ⁊ remiſſione q̄litatū. Et ſic dr̄ ꝙ ſicut ꝯclō ē vera de dēſitate: ita ē eſt vera de raritate ꝯſideratū extremū intēſius in dēſitate. eꝫ modo quo ꝯſideratꝰ in raritate ⁊ eꝫ. ¶ Et tūc ad argᵐ in oppᵐ qn̄ ꝑ argr̄ ꝙ nō negatꝰ illa ꝯña ꝑ maioꝛē ptē ꝯtiᵉ erit deꝑditio dēſitatis q̄ acq̄ſitio ⁊ eq̄uelociter: ḡ totū ꝯtiᵉ remittetꝰ in dēſitate. dēſitas .n. ꝯſeqꝛ q̄titatem in cōparatione ad māꝫ. Ideo lꝫ ꝑ q̄titatēcūq; modicū fieret acq̄ſitio dēſitatis: ⁊ ꝑ q̄titatēcūq; magnū deꝑditio eiuſdē: dū tñ ꝑ illā deꝑditionē dēſitatis eq̄lis ſit acq̄ſitio q̄titatis ſicut ꝑ acq̄ſitionē dēſitatis ſit deꝑditio q̄titatis manēte eq̄lr̄ de mā: totū nec ꝯdēſabitꝰ nec rareſiet: ⁊ tūc tota quātitas in eadē mā manebit eq̄lis. Unū ſi fiat acq̄ſitio dēſitatis per quātitatēcūq; magnā ptē: ⁊ eq̄lis deꝑditio dēſitatis per quātitatēcūq; modicā ptē: ita tñ ꝙ minoꝛ quātitas deꝑdetꝰ per iſtā ꝯdēſationē q̄ acq̄ratꝰ per rarefactionē: totū rareſiet. Unū ſi .a. eēt octo pedaliū: ⁊ 4ª pars eius. ſ. bipedalis eſſet denſa vt duo: ⁊ reſidua pars dēſa vt .16. que. ſ. eſt ſexpedaliū: ⁊ iſta pars dēſa vt duo minoꝛetꝰ in dēſitate deꝑdēdo vnū in dēſitate ⁊ tota pars reſidua ꝯdēſaretꝰ acq̄rēdo vnū de denſitate: maioꝛ quātitas eēt acq̄ſita illi pti rarefacte q̄ a tota pte reſidua eēt deꝑdita. Iſta .n. pars fieret in duplo minꝰ dēſa q̄ nūc eſt: ḡ eiꝰ quātitas maioꝛabitꝰ ad duplū: ⁊ ꝑ ꝯñs acq̄ret bipedale ⁊ tota pars reſidua acq̄ret ſolum vnū de dēſitate: ḡ fiet in ſexquiſeptodecuplo dēſioꝛ: qꝛ .17. ad .16. eſt ꝓpoꝛtio tª dicta: ⁊ ꝑ ꝯñs ſua quātitas fiet in tª ꝓpoꝛtiōe minoꝛ q̄ nūc eſt: ⁊ illa nūc eſt ſex pedaliū: ḡ nō deꝑdet bipedale: qꝛ tūc fieret in ſexq̄altero minoꝛ: ḡ ſtat equalē deꝑditionē dēſitatis per ptē minoꝛē eē ⁊ acq̄ſitionē eq̄lē per maioꝛē: ⁊ tñ totū rareſieri. ⁊ eꝫ pōt eē deꝑditio dēſitatis per q̄titatēcūq; magnā ptē volueris: ⁊ eq̄lis acq̄ſitio per quātitatēcūq; modicā: ita tñ ꝙ totū condēſet vt ſit .a. octo pedaliū: cuiꝰ ſolū 4ª ſit denſa vt duo vt pꝰus: ⁊ reſidua pars vt .16. ⁊ ponatꝰ ꝙ tª 4ª .a. que eſt dēſa vt duo acq̄rat 2ᵒ de dēſitate: ⁊ ſeqꝛ ꝙ eiꝰ dēſitas maioꝛabitꝰ ad duplū: ḡ tª 4ª fiet in duplo minoꝛis quātitatis: ⁊ ſic deꝑdet pedale per illā ꝯdēſationē. ¶ Ponatꝰ ḡ ꝙ tota pars reſidua ſexpedaliū deꝑdat duo de dēſitate: ⁊ ſequitꝰ ꝙ cū ſua denſitas nūc ſit vt .16. ꝙ tūc erit vt .14. ⁊ ſic ſua q̄titas erit in ſexqſeptimo maioꝛ q̄ nūc eſt. ꝓpoꝛtionabilr̄ .n. ſicut dēſitas ſit minoꝛ: ita quātitas ſit maioꝛ ⁊ eꝫ. ⁊ ſi ſic illi quātitati nō acq̄ritꝰ pedale: qꝛ tūc fieret in ſexqſexto maioꝛ q̄ nūc eſt. ꝯñs falſuꝫ. ḡ ſeqꝛ ꝙ tūc erit tota ſua quātitas minoꝛ q̄ nunc eſt. ⁊ ſi ſic ſeqꝛ ꝙ totū ꝯdēſabitꝰ: ⁊ tñ per multū maioꝛē ptē ꝯtiᵉ erit rarefactio q̄ ꝯdenſatio ⁊ eq̄uelociter: vt ꝯſtat: ideo nō valet argᵐ. id ꝓ factū per maioꝛē partē ꝯtiᵉ erit deꝑditio dēſitatis q̄ acq̄ſitio ⁊ eq̄uelociter: ḡ totū rareſiet ꝯtiᵉ: imo in tali caſu vbi vna medietas intēſioꝛ īcēditꝰ ad mediū: ⁊ alia eq̄uelocr̄ remittitꝰ in toto tpe cathegoꝛice tāta acq̄ritꝰ q̄titas vni medietati quāta alia deꝑdet: vt argutū eſt in argᵗᵒ ꝓpter ꝯnem pᵃ ꝓbādā. Uñ

da. Unā medietas que ɔdēſabit̄ velocius incipit deꝑdē̄ de quātitate ꝙ̄ alia incipit acq̄rē: q̄ vna medietas eſt alteri eq̄lis: ⁊ ita velocius ꝑportionabilr̄ incipit cōdēſari ꝙ̄ alia rarefierı: adeo velocius incipit diminui ꝙ̄ alia maiorari: ⁊ aliq̄ñ poſt tardius minorabit̄ ꝙ̄ alia maiorabit̄. ſ. ab illo inſtāti in quo erit tāta ꝑportio dēſitatis ptis denſioris ad dēſitatē ptis rarioris quāta erit ꝑportio iſti᷒ ptis dēſioris

nota quātitatis ad q̄titatē alteri᷒. ¶ Ad cui᷒ declaratiōnē eſt nōn̄ ꝙ ſi ſint duo equalr̄ denſaineq̄lis quātitatis eq̄uelo. rarefacta ſiue ɔdēſata ꝑportionabilr̄ ſic vnū eſt maioris quātitatis ꝙ̄ reliquū: ita veloci᷒ acq̄ret vl̄ deꝑdet de quātitate: nā iſta duo equeuelo. rarefient vel ɔdēſabunt̄: ⁊ per ɔñs ex ꝑ̄ .n. eque ꝑportio. acq̄rūt vel deꝑdūt de denſitate: ſeq̄t̄ ꝙ eque ꝑportionabilr̄ acq̄rūt vel deꝑdūt de quātitate. ɔña tenet per ꝓbabita. ⁊ ſi ſic ſicut vnū eſt alio maius: ita velo

2° cius acq̄rit vel deꝑdit de quātitate. ¶ 2° notādū eſt ꝙ ſi ſint duo inequalr̄ denſa eq̄lia in quātitate que eq̄uelo. pro nunc acq̄rāt vel deꝑdāt de denſitate ꝑportionabilr̄ ſic eſt vnū alio minus dēſum: ita veloci᷒ acq̄rit vel deꝑdit de quātitate: q̄ in qua ꝑportione eſt vnū alio minus dēſum in ea ꝑportione veloci᷒ ꝑportionabilr̄ acq̄rit vel deꝑdit de dēſitate: vt cōſtat: ⁊ eque ꝑportionabilr̄ de quātitate ⁊c. ſicut de dēſitate. ḡ

3° ſic ꝑpor. acq̄rit velocius vel deꝑdit de quātitate. ¶ 3° nota ex his ꝙ ſi ſint duo ineq̄lia in quātitate ⁊ dēſitate ſicut vnū eſt alio maius: ita ſit eodē dēſius que eq̄uelo. acq̄rāt vel deꝑdāt de dēſitate eq̄uelo. acq̄rūt pro h̄ inſtāti de quātitate vel deꝑdūt nō itelligēdo ꝙ ɔtinue eq̄uelociter acq̄rāt de q̄titate: ſȝ itelligēdo illa pro iſto inſtāti pro quo eſt talis ꝑportio eq̄uelociter in acq̄rere de quātitate. Sit eniȝ .a. in .f. ꝑpor. dēſius .b. ⁊ in eadē ꝑpor. maius .b. ⁊ ſit .c. in .f. ꝑpor. maius .b. ſ. equale .a. ⁊ eque dēſum cuȝ .b. quo poſito acq̄rāt oia iſta tria. vel deꝑdāt pro hoc inſtāti eq̄uelociter de dēſitate: ⁊ ſeq̄t̄ ꝙ pro h̄ inſtāti in .f. ꝑpor. velocius acq̄rit .c. de quātitate ꝙ̄ .b. iuxta p̄m illoꝝ nōbiliū ⁊ per 2m iſtoꝝ .c. etiā in .f. ꝑpor. acq̄rit velocius vel deꝑdit de quātitate ꝙ̄ .a. c. enim eſt equale .a. ⁊ in .f. ꝑpor. minus dēſum: ⁊ eq̄uelociter acq̄rēs vel deꝑdēs de dēſitate cū .a. ḡ ſeq̄t̄ ꝙ .a. ⁊ .b. eq̄uelociter acq̄rūt vel deꝑdūt de quātitate. ¶ Ex his manifeſte ɔcludit̄ ꝑpo. dato .n. tali inſtāti in quo erit talis ꝑportio dēſitatis medietatis dēſioris ad dēſitatē medietatis rarioris quāta q̄titatis eiuſdē ad quātitatē illi᷒: ex q̄ tūc vna iſtaꝝ medietatū eq̄uelociter deꝑdet de dēſitate ſic alia acq̄rit pro iſto inſtāti eq̄uelo. acq̄ret vna de q̄titate ſic deꝑdet alia. id .n. qd̄ tūc deꝑdet dēſitatē eque velociter ꝑꝑdet pro iſto inſtāti acq̄rit quātitatis ſic ſi pro eodē inſtāti acq̄ret dēſitatē ⁊ deꝑdet de quātitate ideo ⁊c. Et ꝙ ſit dare tale inſtās in quo erit talis portio pȝ: q̄ ꝑportio quātitatis vni᷒ ad quātitatē alteri᷒ a nō gradu ꝑportionis. ſ. maioris ineq̄litatis incipit maiorari que per totū tp̄s maiorabit̄: vt pȝ: q̄ medietas denſior ɔtinue maiorabit̄ ⁊ alia minorabit̄: ⁊ nūc eſt certa ꝑportio dēſitatis medietatis illi᷒ dēſioris ad denſitatē alteri᷒ medietatis que in infinitum minorabit̄: q̄ in fine erūt ille denſitates eq̄les. ḡ aliq̄ñ erit tāta ꝑportio quātitatis vni᷒ medietatis ad quātitatē alteri᷒ ſicut dēſitatis vni᷒ ad dēſitatē alteri᷒: qd̄ fuit ꝓbādū. ¶ Ex h̄ ſeq̄t̄ ꝙ ɔtinue poſt tale inſtās veloci᷒ maiorabit̄ medietas dēſior ꝙ̄ alia

4° minorabit̄. ¶ Pro quo ponit̄ vnū nōbile ſequēs ex alijs. ſ. ſi ſint duo ineq̄lia ⁊ inequalr̄ denſa: ita ꝙ maior ſit ꝑportio quātitatis vni᷒ ad quātitatē alteri᷒ ꝙ̄ dēſitatis vni᷒ ad dēſitatē alteri᷒: que eq̄uelociter acq̄rūt vel deꝑdūt de dēſitate velocius acq̄rit vel deꝑdit maius de quātitate ꝙ̄ minus: ſit eniȝ .a. dēſius .b. in .f. ꝑpor.: ⁊ in maiori ꝑportione maius .b. ⁊ ſit .c. eque dēſum cū .a. ⁊ in .f. ꝑpor. maius .b. ꝑciſe: tūc iuxta 3m nōbile ꝑpoſitum .c. ⁊ .b. eq̄uelo. acq̄rūt de quātitate vel deꝑdūt. acq̄rāt eiȝ .a. b. c. eq̄uelociter de denſitate vel deꝑdāt: ⁊ per p̄m iſtoꝝ triū nōbiliū .a. velocius acq̄rit vel deꝑdit de q̄titate ꝙ̄ .c. ḡ .a. velocius acq̄rit vel deꝑdit de q̄titate ꝙ̄ .b. ⁊ ſic ɔtinue erit de medietate denſiori ⁊ rariori medietate .a. poſt tale inſtās in quo erit ꝑportio equalis ⁊c. vt ɔſtat cuȝ ɔtinue maiorabit̄ ꝑportio quātitatis vni᷒ medietatis ad quātitatē alteri᷒: ⁊ ꝑportio dēſitatis minorabit̄. ¶ Aliud eſt nōn̄ ꝙ ſi ſint duo ineq̄lia in quātitate ⁊ 5°

inequē dēſa: ⁊ minor ſit ꝑportio q̄titatis dēſioris ad quātitatē alteri᷒ ꝙ̄ dēſitatis vni᷒ ad dēſitatē alteri᷒ que eque velociter acq̄rūt vl̄ deꝑdūt de dēſitate dēſius tardi᷒ deꝑdet vel acq̄ret de quātitate ꝙ̄ rarius. ſit .a. dēſius .b. in .f. ꝑportione: ⁊ in minori ꝑpor. ꝙ̄ eſt .f. mai᷒ .b. ⁊ ſit .c. eque dēſum cū .a. in .f. ꝑpor. maius .b. ⁊ rarefiāt .a. b. c. equeuelociter vel acq̄rāt denſitatē eq̄uelo.: tūc per p̄m nōbile .c. velocius acq̄ret vel deꝑdet de quātitate ꝙ̄ .a. ⁊ per 3m notabile .c. tātū acq̄rit vel deꝑdit de quātitate ſicut .b. ḡ .a. minus acq̄rit vel deꝑdit de quātitate ꝙ̄ .b. qd̄ fuit ꝓbādū. Si ḡ q̄ratur per quātū tp̄s veloci᷒ minorabit̄ pars que cōdēſabit̄ ꝙ̄ pars rarefacta maiorabit̄: ⁊ per quātuȝ tp̄s nō: dico ꝙ vſq̄ ad inſtās in quo erit tāta ꝑportio ptis dēſioris ad ptē rariorē ſm̄ quātitatē eaꝝ quāta erit ſm̄ dēſitatē earūdē ptiū: tūc vna iſtaꝝ eq̄uelociter deꝑdet de quātitate ſic alia acq̄ret iuxta 3m nōbile: ⁊ ɔtinue poſt tale inſtās tardior erit deꝑditio quātitatis ꝙ̄ acq̄ſitio iuxta 4m nōbile: ⁊ ɔtinue ante id inſtās erit velocior deꝑditio ꝙ̄ acq̄ſitio iuxta 5m notabile. Inq̄rere ḡ qd̄ cēt id inſtās in quo talis habet̄ ꝑpor.o ⁊c. maiorē laborē exiget ꝙ̄ ꝑfectū: veruntamē vbi eſt vniformis deꝑditio dēſitatis in vna medietate: ⁊ vniformis acq̄ſitio in alia ante id inſtās mediū toti᷒ tp̄is inueniri ɔtingē vbicūq̄ in aliq̄ caſu calculaui. In difformi vō acq̄ſitione dēſitatis ⁊ deꝑditione iuxta difformitatē acq̄ſitiōis dēſitatis ⁊ dēſitatis deꝑditionē citra inſtās mediū ⁊ poſt ⁊ in ipſo inſtāti medio ꝑdcm̄ inſtās poterit inueniri. ¶ Ex iſtis facilr̄ ꝑn̄lis ɔcluſio demrāt̄. ſ. ꝙ dēſitas corrñdet ſuo gradui medio. Sit .n. tale difforme .a. ⁊ corrñdeat quātitas vtriuſq̄ medietatis gradui medio iter iſtos gradus denſitatis: ita ꝙ quātitates ille ⁊ gradus medi᷒ per eq̄les mōs aſſignent̄: ⁊ ſit .b. medietas denſior: ⁊ .c. medietas rarior: ⁊ remittat̄ .b. vſq̄ ad gradū mediū qui ſit .d. ⁊ itēdat̄ .c. vſq̄ ad eūdē. ⁊ arguit̄ ſic. ꝑportionabilr̄ ſicut denſitas .b. erit minor ꝙ̄ nūc eſt: ita erit quātitas .b. maior: ſȝ denſitas .b. erit in fine in .d. gradu ſub quo nūc eſt quātitas eiuſdē: ḡ quātitas .b. in fine erit ſub eodē gradu ſub quo nūc eſt dēſitas eiuſdē. Silr̄ ꝑpor. ſicut denſitas .c. erit maior: ita erit ei᷒ quātitas minor: ſed dēſitas .c. erit in fine ſub .d. gradu ſub quo nūc eſt quātitas ſua: ḡ in fine quātitas eiuſdē erit ſub eodē gradu ſub quo nūc eſt ei᷒ dēſitas: ⁊ per ɔñs in fine erit gradus medius iter quātitatē .b. ⁊ quātitatis .c. d. gradus: ⁊ ſi ſic tota q̄titas .a. in fine corrñdebit gradui duplo ad .d. q̄ omne cōpoſitum ex duob᷒ ineq̄lib᷒ eſt duplū ad mediū iter ipſa. ⁊ cum nūc corrñdeat q̄titas .a. gradui duplo ad .d. q̄ vtraq̄ medietas ei᷒ eſt ſub .d. gradu. ḡ in fine erit tota quātitas .a. tāta ſic nūc eſt: ⁊ per ɔñs totū .a. tūc erit eque dēſum ſicut nūc eſt: ⁊ tūc erit vnifor. gradu illi᷒ medio. ſ. iter dēſitatē vni᷒ medietatis ⁊ denſitatē alterius: ḡ id gradui medio corrñdet. ¶ Ideo forte di ꝙ ar̄m id ſatis ꝓbat vbi q̄titas vtriuſq̄ medietatis iſti gradui medio corrñdet ⁊ nō in alijs caſibus. ¶ Cōtra. ſit ḡ .c. minus ꝙ̄ .a. ⁊ ɔſilr̄ dēſum: ⁊ ſeq̄t̄ ꝙ ꝑportionabilr̄ ſic medietas vna .c. eſt minor medietate .a. que rarefiet: ita minus acq̄rit de quātitate: ⁊ etiā ita ꝑpor. alia medietas minus deꝑdet de quātitate. Si ḡ totū .a. erit in fine eq̄lis quātitatis ſic nūc eſt: ita ⁊ erit .c. tāte quātitatis ſic nūc eſt ſp̄m: ⁊ ſic eſt arguēdū de oi maiori .a. ⁊ ɔſilr̄ cū eodē .a. diſpoſito. ⁊ ideo ſeq̄t̄ ɔcl̄o que eſt ɔcedēda vt ꝑus. ¶ Ad 2m Ad 2m

arḡm q̄ ponit̄ ꝙ vna medietas ſit rara vt .12. ⁊ alia vt .2.

admittat sic itelligēdo q vna medietas sit densa vt. 12. et alia vt duo: q gradus vt duo est gradus sextuplus in raritate que priua se hz ad dēsitatē vt. 12. sic. 12. positiue cōstituūt sextuplū ad duo: et tūc qñ ponit q raritas. a. maioretur rc. q nō est aliud q̄ q dēsitas vt duo minoret ad subduplū. s. ad vnū admittat: et ꝯcedit q toti corrīdet gdui vt. 7. et q tūc totū erit rarius q̄ iam est. Et qñ ar q nō: q tunc nō corrīdebit gradui vt. 7. dī q ois gradus citra. 7. est multū maior in raritate q̄ est gradus vt. 7. q raritas se hz priuatiue vt pdictū est: q nō est aliud q̄ dicere q gradus dēsitatis vt. 7. est maior q̄ aliqs citra: et sic nō ꝓcedit argm qd fundat sup h q raritas in fine deberet eē vt 4or cui tñ oppom nūc est dcm. nec idē est de denolatione caliditatis et friditatis sic dī in pn° solonis argū prim ꝯtra ꝯnē.

Ad 3m ¶ Ideo ad 3m arm qñ ponit q vna medietas. a. sit rara. c. gradu: et alia medietas sub gradu subduplo: et q vna medietas. b. sit vniformis. c. gu: et alia gradu subq̄druplo rc. admittat casus et dī q infim modicū rarū est aliqd istoꝝ. Et ad arm qñ ar q qdlibet istoꝝ est rarius q̄ si foret vniforme. d. gu negat id. et qñ sumit ꝯtra: q. d. gradus est remissior q̄ aliqs gradus medi⁹ iter. c. et aliū gm vltra. d. negat: q nō est aliqs subduplus gradus ad. c. in raritate nisi gradus duplus in dēsitate: et subquadruplus in raritate nisi q̄druplus in densitate: et ideo. d. gradus est duplus in densitate ad. c. gm: et gradus subq̄druplus in raritate ad. c. gm sub quo est medietas minus rara. b. est gradus q̄druplus in dēsitate ad. c. iter quē gm et. c. est gradus medius in dēsitate itēsior. d. gu vt pz: et sic de q̄cūq alio posteriori illo et eē in raritate que priuatiue se hz etiāt. d. gradus maior q̄cūq tali gu medio. Et ideo nō valet arm. d. gdus est subduplus in raritate ad. c. g est remissior gu medio inter. c. et quēcūq aliū gm: nec valet de aliq̄ hoi priuatiuo: de oi tñ positiuo est arm necciū. Et cā est: q iter oēs gm cuiuscūq positiui et nō gm est latitudo solū finita: cui⁹ latitudinis est gradus medius subduplus ad gm illū istā latim terminātē in extremo itēsiori. Sz in latitudine priuatiua iter oēs gm et nō gm est latitudo ifinita vt pdictū est. vbi tāgit de intēsione. Ideo illi⁹ totius latis nō pōt aliqs gradus eē medi⁹: imo gradus medi⁹ iter aliquē gm talis latis et gm talē latim incipiētē est in quacūq ꝓporc voluerit gu tali subduplo remissior qd pōt⁹ diceret gu duplo itēsior.

Ad 4m ¶ Ad 4m arm dī admittēdo casuz: et negat q medietas minus rara plus ꝓportiōr acqrit de raritate q̄ alia deꝑdet: q nō est aliud dicere q̄ q medietas magis dēsa plus ꝓpor deꝑdet de dēsitate q̄ alia acqret: cui⁹ oppm est verū rc. Et tūc qñ arguit sic. raritas medietatis mi⁹ rare est minor q̄ raritas medietatis rarioris et tātū de raritate acqrit sicut alia deꝑdet: g plus sibi ꝓportionalr acqrit q̄ alia deꝑdet. Negat ꝯñtia: q sic sigat q medietas minus rara. i. magis dēsa tātū acqrit de raritate. i. tātū deꝑdet de dēsitate sicut alia acqrit: ergo plus ꝓportionabilr de dēsitate deꝑdet q̄ alia acqrit: que ꝯñtia vt notū est in nullo valet: imo seqt oppositū de q̄cūq alio positiuo vt si eēt aliqd positiuū minus alio qd equeuelociter maioraret plus sibi ꝓportionabiliter acqreret. ¶ Esset. n. ibi cremētū in numeris p pdicta: de priuatiuo tñ semꝑ oppm seqt vt deductū est: eo q inter oēs gm cuiuslibet talis priuatiui et suū duplū est in duplo minor latitudo q̄ iter ipm et suū subduplū: cui⁹ oppom de oi latitudine positiua ꝯstat vlr eē verū. Exēpluz: si vna medietas eēt rara vt octo: et alia in duplo rarior: illa eēt vt quattuor: cui⁹ gradus medi⁹ eēt vt sex: et ille gradus vt 4or maior est priuatiue gradu vt sex. ¶ Habita g hāc imaginatiōe de latitudine priuatiua qualr ista nō differt realr a latitudine positiua nisi q in maioratiōe positiui signati p numerū crescit nūerus. et eē est de priuatiuo vt dcm est: q intēsio priuatiui accedit vsus nō gm positiui: et remissio eius vsus nō gm ifim positiui. Quare oia arga q̄ fundant in cōparatiōe dēsitatis ad raritatē satis facilr dissoluunt.

¶ Ad 5m argm qñ ponit q. a. sit vnifor diffor rarū ad nō gm raritatis terminatū dī negādo casuz vt prius: qñ id ponebat ꝯ vltas pōnez ponētē q dēsitas se hz positiue: q nō est aliud nō gradus raritatis q̄ gradus ifinit⁹ densitatis: iter quē gm et aliū gm latitudo vnifor difformis nunq̄ poterit inueniri. Ad 5m

Nungd oē vnifor diffor dem sit vnifor diffor rarū. qd sic argr: q nō est aliō rarū vnifor difforme q̄ dēsuz vnifor diffor: ex q̄ iter se raritas et dēsitas realr nō differūt. ¶ Et q nō ar sic. Sit. a. vnifor diffor dēsuz. et ar sic. Dēsitas. a. est vnifor difform: g dēsitas extremi dēsioris p tantū excedit densitatē illi⁹ ad pūctū mem sic ipa ad mem excedit dēsitatē ad aliō ei⁹ extrem: g maior est ꝓpor dēsitatis pūcti medij ad dēsitatē extremi rarioris q̄ extremi dēsioris ad dēsitatē medij pūcti: q ex eq̄li excessu iter minora resultat maior ꝓpor q̄ iter maiora: sed ꝓportio sic ad aliquē pūctū est maior densitas q̄ ad aliū ita ad eūdē ē raritas minor. g ꝓpor raritas extremi rarioris ad raritatē pūcto me corrīdētē est maior ꝓpor illi⁹ raritatis pūcti talis medij ad raritatē extremo mi⁹ raro corrīdētē: et p ꝯñs nō est vnir diffor rarū: q si eēt vnir diffor rarū minor eēt ꝓportio extremi itēsioris ad mem pūctū q̄ medij ad extrem remissim: q ex eq̄li excessu iter miora rc. 2m du

¶ Pro isto dī ꝯcedo pte affirm. Et ad arm in oppm ꝯcedit totū vsq ad vltm: qñ. s. ꝯcludit q totū nō est vnifor difforme rarum: q est maior ꝓpor raritatis extremi rarioris ad raritatē pūcti medij: q̄ illi⁹ ad extrem mi⁹ rarū. de oib⁹ tñ positiuis optie valet arm: et sic est h verū q vlr ex eq̄li excessu inter minora rc. Igit vbi illa sint positiue ꝯsiderata bn seqt de priuatiuo tñ nō opz. Sic positiue octo sunt maiora q̄ sex: et sex q̄ 4or: et eē priuatiue 4or sunt maiora q̄ sex et sex q̄ octo: et sic est maior ꝓportio 4or ad sex q̄ sex ad octo: et tamen sex est gradus medius inter 4or et octo. Rñ

Hic pñt multa moueri dubia. Primū. nungd aliqd sit eque rarū sicut dēsuz. ¶ 2m nūgd ex vniformi acqsitione dēsitatis sequat vniforis deꝑditio raritatis et eē. ¶ 3m nungd equeuelor et eque ꝓportionabilr maioret dēsitas sic minorat raritas et eē. ¶ 4m nūgd si a nō gu raritatis acqrāt aliq̄ equeuelor de raritate ꝯtr manebit eque rara. Du pm 2m 3m 4m

¶ Ad q̄ oia pōt ꝯsilr argui et rīderi sic arguebat: vbi tāgunt illa de itenne et remissiōe, mutatis illis terminis intēsio et remissio in istis termis raritas et densitas. Rñsio

¶ Vñ pro p istoꝝ dī negādo dubiū distinguēdo raritatē ꝯ dēsitatē: q vt sic nō sunt cōpabiles fm eq̄litatē et ineq̄litatē. ¶ 2m dum est ꝯcedēdū. sed 3m est negādū: q sic raritas et densitas nō sunt cōparabiles: ita nec deꝑditio vni⁹ et acqsitio alterius: vbi. n. mot⁹ iter se nō sunt cōpabiles nec acqsita p mot⁹ hōs erūt iter se cōparabilia: vt ibi dī. ¶ 4m est negādū: q ois gdus raritatis p ifim distat a nō gu raritatis. iste. n. est ifinit⁹ gradus: vt prius. et ideo lz equeuelor deꝑdāt dēsitatē stat vnū alio ꝯtr densius eē: sic est de duobus que a gu ifinito ꝯtr equeuelor remittent. ¶ Pro ista mā est notm q nihil pōt a certo quāto et a nō gu raritatis rarefieri nisi subito fieret quātm ifinite. et h nō pōt eē: q tūc qlibz pars illi⁹ subito fieret quātm infinite. ꝓportionabilr. n. sic aliq̄ pars fieret rarior ita fieret maioris q̄ntm: et si sic qlibet pūct⁹ itrinsecus illi⁹ ab extremo qescēte in q̄libet īstāti dato in ifim distaret. ꝯñtia satis pz: ex q̄ qlibet pars talis fieret ifim: et si sic seqt q in q̄libet īstāti dato eēt illa ꝓpositio vera: nullibi est aliqs pūct⁹ eius: q nec pūct⁹ qui in pn° fuit medi⁹ nec aliqs ali⁹ cert⁹ dat⁹. et h est ipoīe: q qlibet pūct⁹ eius eēt alicubi et nullus eēt situs in quo aliqs ipoꝝ eēt: ideo est simplr ipoīe aliqd a certo quāto et a nō gradu Nota

raritatis

raritatis rareſieri:ita.ſ.ꝙ totū ſiat rarū ſine ſit rareſactio vniformis ſiue difformis vt appꝫ:q2 ſi ſicut aliq̄ pars ſm ſe totā rareſieret in iſi^m: vel nō. Si ſic arg^r de illa pte ſic̄ ptis arguitū eſt de toto ꝙ.ſ.in q̄cūq3 inſtāti dato nullibi erit aliqs pūct^9 iſtius ptis qḋ eſt īpoſ̄e:ſic ꝙ iſta pars maneat. Si vo dī ꝙ nulla pars ſm ſe totā rareſiet in iſi^m. deſ̄ ḡ extre^m geſcēs:⁊ ſeq̄ꝓ ꝙ ḡlibet pūct^9 citra aliū extre^m per finitū3 ſolū diſtabit ab extremo illo geſcēte.ḡ ḡlibet talis pars ɔti^e erit in iſi^m dēſa:q2 iſi^m ɔtinēs de mā ⁊ ex̄tis ſolū q̄titatis finite vt ɔſtat.ſ3 h̄ eſt īpoſ̄e.ſ.ꝙ ḡlibet pars eius ſit iſi^te dēſa.vel ꝙ ad oēs pūctū hu^9 ſit iſinita dēſitas:⁊ tn̄ totū eſt rarū3:ḡ nō pōt poni ꝙ tale ſiat rarū qḋ appꝫ verū. ¶ Cōtra qḋ ſic arg^r. Sit p̄^a pars ppor^{lis}.a.aliqualr dēſa:⁊ z^a in duplo denſior:⁊ ſic in iſi^m:⁊ rareſiat ḡlibet pars ppor^{lis} ad raritatē p̄^e ptis:q3 geſcētē:nūc totū nō eſt rarū:q2 iſinite denſuz ⁊ certe quātitatis:⁊ hō erit rareſactio:ita ꝙ totū ſiet rarū:q2 in fine totū erit iſi^m rarū vniſor^r g^a quo p̄^a pars ppor^{lis} eſt rara:q2 ḡlibet iſtaꝝ ptiū ppoꝛtionabiliū rareſiet ad raritatē p̄^e ptis ppoꝛtionalis vt ponit̄ in caſu. Et ꝙ totū ſiet iſinitū ꝓꝫ:q2 z^a pars ppoꝛtionalis eſt in duplo denſioꝛ p̄^a ⁊ q̄titatis ſubduple:ḡ tātū ɔtinet z^a pars ppoꝛtionalis de mā ſicut p̄^a:⁊ in fine erūt eque rare cū p̄^a pte.ḡ in fine erit iſta z^a pars ppoꝛtionalis eq̄lis cū p̄ma in quātitate:⁊ ſic arguit̄ de 3^a:⁊ ſic in iſinitū.ḡ ſeq̄ꝓ i^{am} ɔnem eē falſam:q2 in caſu iſto nō ſeq̄ꝓ aliqḋ incōueniēs ibi adductū:q2 nulla eſt certe pars que ſm ſe totā rareſiat in iſinitū.ḡlibet.n.pars ppoꝛtionalis hu^9 ſm iſtā diuiſionē ſolū rareſiet ad quātitatē p̄^e ptis ppoꝛtionalis:nec ſeq̄tur ꝙ ḡlibet ei^9 pars terminata ad extremū geſcēs erit in infinitū denſa:q2 ḡlibet talis pars nūc corrn̄det certo ḡdui dēſitatis. nec erit verū ꝙ ad quēlibet pūctū ei^9 intrinſecū erit dēſitas iſinita. ¶ Ideo dī ꝙ ſi ſm ſe totū aliqḋ eēt nō rarū:⁊ certe q̄titatis id nō poſſet rareſieri neq3 ꝑ totū3 neq3 per ptē:q2 vt deducit̄ ſeq̄ꝓ ꝙ nullibi eēt aliqs pūct^9 illius intrinſecus ſi per totū ſieret rarū. vel ſi per ptē nullibi eſſet pūct^9 illi^9 ptis. vel ſeq̄ꝓ ꝙ ad oēz pūctū ɔti^e maneret denſitas iſinita:⁊ ſic totū nō eſſet rarū. deductio ꝓꝫ per ꝑus dicta:vbi tn̄ ad oēm pūctū intrinſecū erit denſitas finita tātū nō eſt incōueniēs totū ſieri rarū: vt ꝑdictū eſt. ¶ Sz ɔtra h̄ arguit̄ ſic. totū ɔtinet mā3 iſinitā:⁊ ſi ſic totū nō eſt rarū nec eē pōt manēte mā illa iſinita. ¶ Pro iſto dī ꝙ ſi q̄titas maneret finita ſolū bn̄ ſeq̄ret̄:ſ3 q2 q̄titas erit iſinita ſic̄ mā:ideo nō valet ar^m. ¶ Cōtra. data hac riſione ſeq̄ꝓ iſta ɔcl̄o ꝙ.a.b.ſunt eque denſa:q̄rū3 vnū pōt rareſieri:⁊ aliud nō:ſic̄ appꝫ de tali ꝙ per totū eēt iſinite dēſū3:⁊ de alio difformi iſinito gradui dēſitatis corrn̄dēte vt deducebat̄.ḡ ɔcedēda eſt ɔcl̄o. ¶ Itē ſeq̄ꝓ ꝙ.a.⁊.b.ſunt eque dēſa:quoꝝ vnū ɔti^e rareſiet ⁊ aliud nunq̄3 rareſiet:⁊ tn̄ in fine erūt eque rara. Ponat̄ de.a.vt ꝑpoſitū3 eſt.ſ.ꝙ p̄^a pars ppor^{lis} ſit in duplo dēſioꝛ z^a:⁊ ſic in iſinitū:⁊ rareſiat ḡlibet pars ppor^{lis}.a.ad quātitatē ⁊ raritatē p̄^e vniſor^r acqrēdo quātitatē ꝑ totā hoꝛā vt ɔſtat eē poſſibile:⁊ ponit̄ ꝙ.b. ſit ɔſil̄e ipi.a.⁊ diuidat̄ hoꝛa in ptes ppor^{les}:ita ꝙ in p̄^a pte ppoꝛtionali illi^9 hoꝛe rareſiat z^a pars ppoꝛtionalis ipius ad raritatē p̄^e ptis ppoꝛtionalis:⁊ in z^a pte ppoꝛtionali hoꝛe rareſiat 3^a pars ppoꝛtionalis huius ad illā raritatē:⁊ ſic in iſinitū:ita ꝙ in omni pte ppoꝛtionali hoꝛe ſolū rareſiat vna pars ppoꝛtionalis.b.⁊ in.a.rareſiāt oēs ptes ſil̄:⁊ ſeq̄tur ɔcl̄o. Nā.a.b.ſunt eque denſa:vt ꝓꝫ:q2 ſunt oīno ɔſil̄r diſpoſita:⁊.a.ɔti^e rareſiet:q2 ɔtinue poſt hoc erit.a.finite dēſū3:⁊ ɔtinue magis ⁊ magis rareſiet:q2 gradus in iſi^m ꝓcedēs:⁊ q̄cūq3 alius ɔti^e minorabit̄ in dēſitate:eo ꝙ erit vniformis acq̄ſitio quāti^{tis} re^e cuiuſcūq3 ptis ppoꝛtionalis eius:⁊.b.nunq̄3 rareſiet:q2 nō ante fine nec in fine nec poſt:eo ꝙ ɔtinue ante finē erit totū iſinite denſū3:q2 hn̄s mā3 iſinitā ⁊ quātitatē ſolū finitā:q2 ɔti^e ante finē erūt ſolū ptes ppoꝛtionales iſti^9 finite rareſacte: vt ponit̄ in caſu: ⁊ rareſactio finita re^e iſinite dēſi nihil ad ſui rareſactionē faciet ſic̄ nec remiſſio finita ad remiſſionē finiti iſinite intēſi. ergo ſeq̄ꝓ ꝙ.b.nunq̄3 ante finē rareſiet nec in fine nec poſt:q2 tunc ceſſabit oīs mot^9 in eo.ḡ ⁊c̄. ¶ Pro iſto dī ꝙ imediate ante finē.b.totā latitudinē a nō g^a raritatis vſq3 ad g^m ſub quo erit.a.in fine rareſactōis ſubito acq̄ret:imo pro nullo inſtāti ante finē erit.b.rarū:ex quo tn̄ nō ſeq̄ꝓ ꝙ nunq̄3 rareſiet:ſ3 ſeq̄ꝓ ꝙ pro nullo iſtāti ante finē ſm ſe totū rareſiet:ſ3 imē^{te} ante finē ſubito deꝑdet lati^{ne3} dēſitatis iſinitā. iſinite.n.den^e eſt aliqua pars ppor^{lis} que imediate ante finē remittet̄ ad gradū denſitatis p̄me ptis ppoꝛtionalis: vt ponit̄ in caſu:⁊ ſic nō procedit arg^m.

Nunqd extitit aliq̄ iſinito q̄ti^{te} qḋ habeat ptē finitā iſinite dēſa3:totū eēt iſinite dēſū3. Qḋ ſic arguit̄. ſit.a.vnū tale iſi^m:cui^9 vnū pedale ſit iſinite dēſum ⁊ totū reſiduū finite dēſū3 ſolū:⁊ ſit.b.vnū aliud iſi^m iſinite dēſū3 qḋ eſt imaginabile:⁊ ſit qḋlibet pedale illius finite dēſū3. vel p̄^m pedale aliqualr dēſū3:⁊ z^m in duplo dēſius:⁊ ſic in iſi^m:tūc erit.b.iſinite dēſū3 hn̄s ptē iſinitā iſinite dēſam:ſic̄ eēt de tali īteſo:cui^9 p̄^m pedale eēt aliqualr īteſū3:⁊ z^m in duplo īteſius:⁊ ſic in iſi^m:⁊.a.eſt ita dēſum ſic̄.b.q2 ɔtinet tātū de mā.ſ.iſi^m ⁊ eſt ꝑciſe tāte q̄ti^{tis} ſic̄.b.ḡ.a.eſt iſinite dēſū3. aīs appꝫ iuxta pōne3. ¶ Itē p̄^a pars pedalis.a.ɔtinet iſinitas mās eq̄les:imo iſinities iſinitas equales. ponat̄ ḡ ꝙ ab i^o pedali auferant̄ ille māe ⁊ coextēdātur cū pedalib^9 reſiduis:ita ꝙ quelibet illaꝝ pedaliū3 habeat iſinitas hō mās eq̄les:⁊ ſeq̄ꝓ ꝙ in fine.a.erit infinite dēſū3:q2 qḋlibet eius pedale tūc erit iſinite dēſum: vt ꝓꝫ iuxta caſū3 ⁊ totū nō ɔdēſabit̄:q2 quātū auferet̄ de mā a ꝑ pedali tātū addet̄ alteri ꝑcile:ḡ totū nūc eſt iſi^te denſū3. ¶ Uel meli^9 ſic arguit̄. Sit.a.vt poſitū3 eſt in arg^o ꝑ pro iſto dubio.⁊ ſequit̄ ꝙ p̄^m pedale ɔtinet iſinitas mās tales quales habet p̄^m pedale.b.maneat ḡ in ꝑ pedali.a.vna illarū māeꝝ ſolū:ita ꝙ due illaꝝ māeꝝ extēdant̄ in z^o eius pedali:⁊ tres illaꝝ māeru3 in 3° pedali.a.ita ꝙ tūc p̄^m pedale.a.habeat vnam tm̄:⁊ z^m duas:⁊ 3^m quatuoꝛ:ſicut.ſ.ſe hn̄t iſta pedalia corrn̄dentia.b.⁊ ſit vna talis mā in p̄n^o in ḡlibet pedali ꝑcedēs in ꝑ pedali ſicut eſt in ꝑ pedali.b.tūc vt ɔſtat.a.in fine tp̄is erit oīno ɔſil̄r diſpoſitū cū.b.vt ponit̄ in caſu:⁊.b.erit iſinite dēſum: vt ꝑus.ḡ.a.tūc erit iſinite dēſum:⁊ nūc eſt eque dēſū3:ſicut tūc erit:q2 quātū vnū pedale plus hēbit de mā q̄3 nūc tātū deꝑdet p̄^m pedale.ḡ ſequit̄ ꝙ totū nūc eſt iſinite dēſum. ¶ Uel ſic capiat̄ mā in ꝑ pedali.b.⁊ ponat̄ ꝙ exceſſus māe in q̄cūq3 alio pedali vltra iſtā mām auferat̄ ab illis pedalib^9 ⁊ addat̄ ꝑ pedali:⁊ videt̄ ꝙ totū nec rareſiet nec ɔdēſabit̄:q2 tota mā manebit eadē in illa quātitate. ¶ Ad oppoſitū arguit̄ ſic: per p̄^m arg^m factū pro eodē dubio:q2 ſignet̄ vnū iſinitū q̄titatiue finite dēſum iſinitū hn̄s de mā: vt ꝑbatū eſt eē poſſibile ꝙ ſit.b.tūc.b.tātū3 ɔtinet de mā ſic̄.a.q2 vtrūq3 iſinitū:⁊.b.eſt ſolū tāte quātitatis ſicut.a.q2 iſinite quātitatis eſt vtrūq3 iſtoꝝ.ḡ ſequit̄ ꝙ.b.eſt eque dēſum cū.a.⁊ b.eſt ſolū finite dēſum:ḡ.a.eſt ſolū finite dēſum. ¶ Item per z^m arg^m qḋ ſit pro i^o dubio arguit̄ ɔtra id idē:q2 capiantur oēs medie^{tas} māeꝝ extēſaꝝ per pedalia.b.iſiniti vniformiter rari que auferant̄ ab illis pedalib^9:⁊ addātur ꝑ pedali eiuſdē per totū:⁊ ſequit̄ ꝙ id nō ɔdēſabit̄ nec rareſiet vt appꝫ:⁊ tātū3 auferet̄ ab vno pedali ſic̄ apponet̄ ꝑ id eſt ſolū finite denſum in p̄n^o.ḡ id ſolū3 finite dēſū3 erit in fine:⁊ tūc erit vna ei^9 pars finita iſinite denſa.ḡ dubiū eſt falſum. ¶ 3° ad idē arguit̄ ſic. Ponat̄ ꝙ.a. ſit bipedalis quātitatis cui^9 vna medietas ſit dēſa vniſor^r certo gradu:⁊ z^a dēſa vniſor^r gradu remiſſioꝛi:⁊ maioꝛ ē.

Dubium.

z

Ad opp^m

BIBLIOTECA NAZ. ROMA VITTORIO EMANUELE

iſta pars minus denſa in īfinitū manēs ſemp dēſa vniſor
miter iſto gradu quo nūc eſt ſic ſtaret per additionē mãe
ad extremū: ⁊ ſequit̄ q̄ .a. dꝫ fieri minus dēſum: ſi pars re
ſidua nō cōdēſaret: qa p̄ pdicta tale corrīdet gradui me
dio. Ponat̄ ḡ q̄ iſti p̄ pedali .a. qḋ eſt eius medietas adue
niat mã: ita q̄ rōne cōdēſationis illi᷒ ptis totū maneat cō
tinue eque dēſum ſicut in pn̄°: ⁊ ſeq̄t̄ q̄ totū .a. in fine erit
eque dēſum ſicut in pn̄°: ⁊ tūc erit vnū pedale illi᷒ infinite
dēſum. ḡ ɔcluſio falſa: qa p̄ᵐ pedale eſt īfinite dēſum ⁊ to
tū reſiduū finite dēſum: ⁊ tñ totū eſt intēſum ſub gradu
medio: vt pꝫ. Añs arguit̄. Nā in infinitū maiorabit̄ pars
minus dēſa: ḡ ſi illud pedale ſolū ad gradū finitū intēde
ret̄ nihil in cōparatiōe ad totū ɔferret ſicut eſt de itēſio
ne corpis īfiniti. ḡ tūc nō foret denſius q̄ pars illa īfinita.
q̄ eſt ɔ poſitū. ḡ ſeq̄t̄ q̄ tūc erit id pedale īfiᵗᵉ denᵐ ⁊ totū
4° finite dēſum: vt pus. ḡ ſeq̄t̄ dubiū eē falſum. ¶ Itē dato
iſto ſequit̄ q̄ aliqḋ eſt īfinitū cui᷒ ſolū pars finita eſt den
ſa ⁊ īfinita nō denſa: ⁊ totū tñ eſt īfinite dēſum. Sit enim
a. tale: cui᷒ p̄ᵐ pedale ſit īfinite dēſum: ⁊ ſit zᵐ pedale ali
qualr̄ dēſum: ⁊ 3ᵐ pedale in duplo minus dēſum q̄ zᵐ: ⁊ ſic
in īfinitū: tūc capio totū .a. pter p̄ᵐ pedale: tūc id nō eſt
dēſū: qa eſt īfinite q̄ntitatis ⁊ ſolū finite ɔtinēs de mã: qa
p̄ᵐ illoꝝ pedaliū aliquãtulū ɔtinet de mã: ⁊ zᵐ iſtoꝝ in du
plo minus: qꝛ eo eſt in duplo rarius: ⁊ ſic deinceps. ḡ id cō
poſitū ex oīb᷒ pedalib᷒ deducto p̄ pedali eſt nō dēſū: ve
rūtamē totū eſt īfinite dēſum poſita hac rīſione. ¶ Et q̄
ɔcluſio ſit falſa arguit̄: qa ex q̄ illa denſitas eſt īfinita ⁊ ſo
lū per pedale nō ſufficit plus denoīare totū q̄ raritas vel
denſitas finita per totū ſubm īfinitū extēſa: ſꝫ nulla denſi
tas finita per ſubm īfinitū īfinitū denoīabit īfinite dēſū:
vt ɔſtat. ḡ nec dēſitas īfinita per ſubm ſolū finitū denoīa
bit totū īfinitū īfinite dēſū. ¶ Ideo forte dī q̄ talis dēſi
tas īfinita p ſubm ſolū finitū exiſtēs finite dēſum denoīa
p° ɔclo bit īfinitū. ¶ Sꝫ ɔtra h̄ ſic arguit̄. Tūc ſeq̄t̄ iſta ɔcluſio.
a. ⁊ .b. ſunt oīno ɔſilr̄ diſpoſita: quoꝝ vnū eſt in certa ppor
z° ɔclo tione alio denſius. ¶ Silr̄ ſeq̄t̄ q̄ oīa iſta eq̄lia ſunt oīno
ɔſilr̄ diſpoſita in raritate ⁊ dēſitate: quoꝝ p̄ᵐ certo gradui
itēſiori .c. gradu dēſitatis corrīdet: ⁊ tñ īfinite modice dē
3° ɔclo ſius .c. gradu eſt aliqḋ iˢᵐ. ¶ Itē p̄ᵃ pedalia .a. b. eq̄liā ſunt
eque denſa ⁊ reſidua pars .a. certo gradui dēſitatis corrī
det: ⁊ pars reſidua .b. nulli gradui dēſitatis corrīdet: ⁊ tñ
3 ɔnes illa duo ſunt eque dēſa. ¶ Cōtra p̄ᵃᵐ arg̃. Si iᵃ ſunt ɔſilr̄
diſpoſita in denſitate ⁊ quãtitate oīno nō eſt maior ratio
q̄re vnū certo gradui corrīdet q̄ q̄ reliquū eidē gradui
corrīdeat. neutrū ḡ erit alio dēſius. ¶ Cōſilr̄ arguit̄ ɔtra
zᵐ ⁊ ɔtra 3ᵐ. Si .n. p̄ᵃ pedalia ſunt ɔſilr̄ diſpoſita: ⁊ reſiduū
b. nulli gradui corrīdet: ⁊ reſiduū .a. certo gradui corrī
det: ⁊ illa denſitas per p̄ᵃ pedalia ſolū finite ɔfert in cōpa
ratione ad totū: ſeq̄t̄ q̄ .a. gradui intēſiori corrīdet q̄ .b. ḡ
q ſeq̄uit p̄ᵃ ɔcluſio eſt falſa. ¶ Arguit̄ tñ illas ɔnes ſeq. ponat̄ de
a. oīno ſicut in caſu argᵗⁱ tertij cōtra dubiū ponebat̄: ⁊ po
nant̄ q̄ .b. ſit tripedalis q̄tiᵗᵉ: cui᷒ vnū pedale ſit ɔſilr̄ di
ſpoſitū cū pedali dēſiori .a. ⁊ ſit totū reſiduū .b. vniforʳ dē
ſū gᵘ quo eſt zᵐ pedale .a. ⁊ ponat̄ q̄ p aduētū mãe maio
ret̄ id bipedale in īfiᵐ manēs ɔtiᵉ ſub eodē gᵘ raritatis: ita
ſ. q̄ in fine erit totū reſiduū a p̄ pedali in īfinitū vniforᵉ gᵘ
quo nūc eſt id bipedale ⁊ fiat cōdēſatio illi᷒ pedalis p ad
uētū mãe p imaginaᵒᵉᵐ: ita q̄ totū .b. ɔtiᵉ corrīdeat illi gra
dui raritatis cui nūc corrīdet. ⁊ tūc argᵗ ſic. b. nūc eſt min᷒
dēſum q̄ .a. qa min᷒ q̄ medietas .b. eſt ſub gᵘ ſub q̄ eſt me
dietas dēſior .a. ⁊ plus q̄ medietas .b. ſub gᵘ illo remiſſio
ri. cū ḡ nec .a. nec .b. rarefiet nec ɔdenſabit̄: ſeq̄t̄ q̄ in fine
erit .a. dēſius .b. totū. añs pꝫ p pargūta. Et arᵗ ex ɔtīte: in fi
ne erit .a. dēſi᷒ .b. ⁊ tūc erūt ɔſilr̄ diſpoſita. ḡ ſeq̄t̄ ɔclo. añs
argᵗ ſic. Pᵃ pedalia erūt ɔſilr̄ diſpoſita: ⁊ ptes reſidue ſūt
erūt vniforᵐᵉ eodē gᵘ. ḡ ⁊c̄. Minor ſatis pꝫ ex caſu. ⁊ ma
ior arᵗ ſic. In fine p̄ᵃ pedalia .a. b. erūt īfiᵗᵉ dēſa: ⁊ p ɔñs eq̄
denſa. añs pꝫ de .a. p pargūta. ⁊ idē pbat̄ de p̄ pedali .b. qa
ſi illud pedale .b. erit ſolū finite dēſū: ⁊ totū .b. erit īfinite
q̄tiᵗᵉ: nihil pōt ɔferre ad denoīandū totū eē dēſū. ɔña te
net ſic de itenˢ q̄litatis. ⁊ ſi ſic totū .b. in fine in nulla ppor
erit denſius q̄ pars reſidua a p̄ pedali. ɔña ſatis pꝫ: ⁊ ɔñs
eſt ɔtra caſum. relinq̄t̄ ḡ q̄ in fine p̄ᵐ pedale .b. erit īfinite
dēſum. pro fine ḡ tpis vificat̄ illa ɔclo. ¶ Pro zᵃ ɔne po
nit̄ de .a. b. vt pus: ⁊ ſint alia īfinita: q̄rū cuiuſlibet ſit vnū
pedale vniforʳ dēſum gradu iſto quo eſt p̄ᵐ pedale .a. ⁊ ſit
alicui᷒ iſtoꝝ pars reſidua q̄drupedalis q̄titatis ⁊ alicui᷒
octopedalis: ⁊ ſic aſcēdēdo in īfinitū: ⁊ ſic cuiuſlibet illoꝝ
pars reſidua a p̄ pedali ei᷒ vniforʳ dēſa gᵘ quo eſt medie
tas minus dēſa .a. qui gradus dēſitatis ſit .c. tūc in infinitū
modica pporᵗᵉ eſt aliqḋ iſtoꝝ dēſius .c. gᵘ: qa gradus extē
ſus p p̄ᵐ pedale alicui᷒ ad ei᷒ dēſitatē ɔfert aliq̄d ⁊ reᵘ alte
rius idē gradus in duplo minus ɔfert: ⁊ ſic in īfinitū. id .n.
pedale eſt alicui illoꝝ aliq̄ualr̄ pporˡᵉ ⁊ in duplo min᷒ ali
cui alteri: ⁊ ſic in īfinitū: vt ſatis notū eſt. ḡ īfinite modice
facit dēſitas p̄mi pedalis alicui᷒ iſtoꝝ ad toti᷒ denoīatio
nē: ⁊ per ɔñs īfinitū modicū eſt aliqḋ dēſius q̄ ſi eēt vni
forme .c. gᵘ. fiat ḡ maioratio ptis minus dēſe .ſ. c. gᵘ in īfini
tū manēs ſub iᵒ gᵘ: vt pus ponebat̄ de .a. b. ⁊ acq̄rat̄ denſi
tas p̄ pedali cuiuſlibet illoꝝ: ita q̄ q̄libet illoꝝ ɔtiᵉ corrī
deat eidē gradui dēſitatiſ ſic in pn̄° corrīdet. ⁊ arᵗ q̄ in fine
erūt oīa illa ɔſilr̄ diſpoſita: qꝛ p̄ᵃ pedalia erūt īfinite denſa
⁊ reſidue ptes īfinite q̄titatis vniformes .c. gradu: vt pus
arguebat̄ de .a. b. qꝛ ſi p̄ᵃ pedalia eēnt finite denſa nihil in
fine ad totius denoīationē ɔferrēt: vt pdictū eſt. ḡ oīa illa
tūc .c. gradui corrīdēt. ɔñs ɔtra caſū ⁊ p̄ᵐ illoꝝ certo gra
dui itēſiori .c. corrīdebit: qꝛ eidē gradui ſic in pn̄°: ⁊ in īfiᵐ
modice erit tūc aliqḋ dēſius vno vniformi .c. gᵘ: qꝛ tūc cor
rīdebit q̄libet iſtoꝝ eidē gradui ſicut in pn̄° corrīdet. pro
fine ḡ tpis ſeq̄t̄ ɔclo. ¶ Pro 3ᵃ ɔne arᵗ ſic. Ponat̄ de .a. vt
pus: ⁊ ſit .b. ɔſilᵉ ipi .a. ⁊ diuidat̄ zᵐ pedale .b. qḋ .ſ. eſt vni
forme .c. gradu in ptes pporˡᵉˢ verſus extremū .b. ⁊ ponat̄ q̄
quieſcēte p̄ᵃ pte pporˡⁱ illi᷒ pedalis rarefiat zᵃ ad equalita
tē iſtius ptis p̄ᵉ: ⁊ etiā 3ᵃ pars pporˡⁱˢ rarefiat ad eq̄litatē
p̄ᵉ ſine acq̄ſitione vel depditione mãe: ⁊ ſic in īfiᵐ: ita q̄ in
fine erit p̄ᵃ ſemipedalis illi᷒ pedalis que .ſ. nūc eſt p̄ᵃ pars
pportionalis: ⁊ oēs alie ptes pportioˡᵉˢ eq̄les erunt. ⁊ ſeq̄t̄
q̄ in fine erit p̄ᵃ pars pportionalis illi᷒ pedalis aliq̄lr̄ den
ſa: ⁊ zᵃ in duplo min᷒ dēſa: ⁊ ſic in īfiᵐ: eo q̄ zᵃ pars ppor
tionalis illi᷒ pedalis in duplo minus ɔtinet de mã q̄ p̄ᵃ: ⁊ et
oēs alie tūc erūt eq̄les ⁊ eq̄lis q̄titatis: ideo in īfinitū mo
dice denſa erit illa pars .b. īfinita in fine: eo q̄ erit infinite
q̄titatiſ ſolū finitū hñs de mã: ideo in īfinitū totū .b. rare
fiet ſi nō eēt acq̄ſitio dēſitatis in p̄ ei᷒ pedali. acq̄rat̄ ḡ den
ſitas iſti pedali .b. manēte ei᷒ q̄titate: ita q̄ totū .b. nec ra
refiet nec ɔdēſabit̄: tūc in fine erit p̄ᵐ pedale .a. īfinite dē
ſum: ⁊ p̄ᵐ pedale .b. ſilr̄: qꝛ aliter nihil ad totius .b. denoīa
tionē in fine ɔferret in dēſitate ⁊ reſiduū .a. tūc erit vnifor
me .c. gᵘ: vt ponit caſus: ⁊ reſiduū .b. tūc nō erit denſum: qꝛ
erit infinite q̄titatis: ⁊ ſolū finite ɔtinēs de mã: ⁊ tñ .a. ⁊ .b.
tūc erūt eque denſa: qꝛ nūc ſunt iſta eque dēſa: ⁊ neutrum
eoꝝ rarefiet nec condēſabit̄. ḡ in fine erūt eque dēſa. totū
añs pꝫ per caſum: ⁊ ɔña eſt nec̄ia: vt notū eſt. ḡ ɔclo vera.

Pro iſto ḡ dubio ⁊ ɔnib᷒ reductis dī negando du — 3° ad dubium.
biū cum trib᷒ ɔnib᷒: ⁊ dī ſatis ſecure ſicut
dictū eſt: vbi tāgit̄ qualr̄ q̄litas idē denoīat ſubm q̄ .ſ. nec
q̄litas finita nec īfinita extēſa per ptē finitā alicui᷒ īfiniti
totū ſub aliq̄ gᵘ ſufficit denoīare: ita q̄ erit hic dōm q̄ da
to īfinito quãtitatiue hñs dēſitatē īfinitā per ptē ſolū fini
tam, totū nō ſufficiet gᵘ finito nec īfinito denoīare: qa quã
titas īfiniti

titas infiniti ſubti infi^c plus tollit de denoiatione q̃litatis
q̃ aliqua q̃litas finita illi^o p fi^m extẽſa poterit pmouere.
Et io ſi addat q̃litas ifi^ta ſiue finita pti ei^o finite non plus
denolare pot q̃ reſiduũ eſt ſue denoiatiois impedimẽtũ.

Ad ar^m ¶ Jo ad ar^m pro dubio fcã rñdet. Et pmo ad p^m ꝛ dicit
admittẽdo caſuz ꝛ totũ ↄcedit vſqʒ ad illaz ↄñaz.b.eſt ifi
nite dẽſuz:ꝛ.a.eſt tãte q̃ntitatis ſic.b.ꝛ tantũ ↄtinet d mã ſicut
totũ.b.g̃.a.eſt ifi^te dẽſuz:que ↄña eſt negãda:qꝛ notũ eſt q
totũ reſiduũ.a.pter p^m pedale eſt finite dẽſuz:qꝛ vnifor^r:ꝛ
tñ id tãtũ ↄtinet de mã ſic totũ.b.qꝛ ifinitum de mã ↄtinet
vtrũqʒ:ꝛ eſt et tãte q̃ntitatis pciſe ſic.b. qꝛ vtrũqʒ eſt infinite
quãti^tis:ꝛ tñ.b.eſt ifinite dẽſuz.Et^o.n.eſt ifi^ta ps ſʒ ſe totuz
infi^te dẽſa vt ↄſtat ꝛ ipſi^o.a.nõ eſt aliq̃ ps maior pedali ſʒ
ſe totã ifinite dẽſa:ꝛ io lʒ in vtroqʒ ſit eq̃lr de mã: tñ non
illo mõ diſponit mã iſta ſic in.b.qꝛ ifi^te plus ſuffic denoia-
re q̃ mã.a.totũ eẽ dẽſum rõne pdcã. Dec tñ ↄña eſt necña
totũ eſt finite q̃ntitatis:g̃ eſt eq̃ dẽſum cũ quolʒ ſibi eq̃li eq̃lr
cũ eo de mã ↄtinẽte quocũqʒ mõ diſponat:qꝛ ibi quelʒ ps
denſitatis toti^o q̃ntitatis quãticũqʒ modica fuerit totũ ſufficit
in quãtitate tãtũ denoiare:qd tñ nõ eſt verũ de ifi^to ꝛ ſic nõ

Ad z^m pcedit ar^m. ¶ Ad z^m arg^m admittat caſus ꝛ ↄcedit q in
fine erit.a.ifi^te dẽſuz:ꝛ negat q nõ ↄdẽſabit. Et ad proba-
tionẽ illi^o negat ↄña.ſ.la ois mã que alicui pedali addet
auferet a p pedali:g̃ totũ nõ ↄdẽſabit: qꝛ lʒ ois mã q̃ vnĩ
pedali addet p fuit in p pedali:tñ tñ illaꝝ p quãti^tis mul
tuz maiorẽ erit:ꝛ ſic erit aliq̃ alie ifinite p ifi^m ſitũ vbi
nũc ſunt ſolũ p finiti:ꝛ io tũc ſufficiẽt denoiare: vbi tñ iaʒ
nõ ſufficiũt. ¶ Et ad ar^m ↄ ↄcedit q in fine erit.a.eq̃ den
ſuz cũ.b.ꝛ dĩ vt pus q ↄdẽſabit in infi^m.a. ꝛ qñ arg^r q nõ
tota mã tũc erit tãte q̃ntitatis ſic nũc ꝛc.g̃ nõ ↄdẽſabit.negat
ↄña.vñ ſi fiat locutio de tota mã pmi pedalis.a.certũ eſt
q extẽdet in ifi^m maiori pte.a.q̃ nũc extẽdat: ꝛ in ifinitũ
aliqñ faciet ad denoianduz totũ eẽ dẽſuz: lʒ tñ tunc nõ ita
facit. Et ideo nõ valet ar^m q̃lʒ mã q̃ extẽdit in aliq̃ pedali
a.pus fuit in vno ei^o pedali:g̃ totũ nõ ↄdẽſabit:qꝛ oẽs ille
mãe ſil ſumpte p ifi^m mai^o ſubʒ extẽdent q̃ nũc ſint extẽ-
ſe cũ dẽſitatib^o iſtis corrñdẽtib^o:lʒ q̃lʒ illaꝝ p ſe ſoluz per

Ad z^m eq̃le ſubʒ extẽdit ſic in pn^o. ¶ E io ad ar^m z^m admittatur
caſus de.b.ꝛ dĩ q.b.in ifi^m fiet min^o denſuz q̃ nũc eſt:qꝛ p
infi^m min^o tũc extẽdit dẽſitas ifi^ta.a.p quã totũ denoiatur
dẽſuz q̃ nũc vt ↄſtatqꝛ p infinitã pte illi^o extẽdit dẽſitas
infi^ta:vbi tñ in fine ſolũ extẽdit p vnũ pedale vt notũ eſt:
ꝛ io in illo caſu nõ ſequit q.b. in fine erit ifinite denſum.

Ad ↄñe ¶ Per h̃ et iſtis ↄñib^o rñdet ipſas negãdo ꝛ dĩ q ps illa
finita in ifi^m dẽſa nõ ſufficiet totũ aliq̃ g^o denoiare: ꝛ io in
nulla ppor^ne erit.a. tũc dẽſi^o q̃ ſi illa ps eẽt ablata q̃ eſt in
infi^m dẽſa. Et ad caſuz g ponit pro p^a illaꝝ triũ ↄñuz dicit
admittẽdo q pro oi inſtãti an̄ finẽ nec.a.nec.b. rareficient
nec ↄdẽſabunt:ſʒ dĩ q rõne acq̃ſitiõis quãtitatis infinite
ſubito an̄ finẽ imediate remittet denſitas.a. a g^o cui nunc
corrñdet vſqʒ ad g^m medietatis rarioris q̃ in fine erit infi
nite q̃ntitatis:ꝛ ſic et erit de.b.ꝛ io arg^m nõ pcedit. fundat
eniʒ ſup h̃ q dẽſitas iſta ifinita p pedale.a.aliq̃lr ad toti^o
denolationẽ ↄfert qd tñ eſt negatũ. ¶ Cõſilr dĩ in caſu po
ſito pro z^a ↄñe:q.ſ.q̃lʒ illoꝝ ifinitoꝝ in fine in n^a ppor^ne
erit magis dẽſuz q̃ ſi p totũ h̃ret.c.g^m quo erit totũ pter p^m
pedale vnifor^r. ¶ Et ſic dĩ ad z^m ↄñez negãdo:q.a.ꝛ.b.in
fine eidẽ gradui corrñdebũt:imo dĩ q ifinite remiſſo gra
dui corrñdebit tota dẽſitas.b.in fine ſic reſiduũ ipſius a p
pedali ſuo: qꝛ id pedale nihil faciet in fine vt pdcm eſt:ꝛ
ſic nõ pcedit argu^m: vñ caſus pro oi inſtãti citra finẽ tpis
ſunt admittẽdi nõ tñ pro toto tpe. ¶ Cõtra ex hac rñſiõe
ſeq̃t q quelʒ ps terminata ad extremũ.b.eſt in ifi^m denſa:ꝛ
tñ totũ nõ eſt dẽſuz:vel eſt ifinite modice dẽſuz. Nam in
fine q̃lʒ ps terminata ad extremũ ei^o ifi^m dẽſa erit:qꝛ quelʒ
talis ps eſt finite q̃ntitatis vt ↄſtat h̃ns certã pte ifinitã dẽ-
ſaʒ:ꝛ tñ iux̃ rñſionẽ totũ tũc nõ erit dẽſuz:vl ſaltẽ totũ tũc
erit ifinite modice dẽſuz. ¶ Pro illo ↄcedit ↄclo ſic pus
de intẽſiõe ſubti ifiniti h̃ntis q̃litatẽ ifinitã p fi^m ei^o ꝛc.

Nota **Pro iſta** mã vlterius eſt advertẽduz:q qñ aliqd au-
gmẽtat p rarefactionẽ reqrit q ps alicuius
pũcti deducat aliqs motib^o. Nullus.n.pũct^o mouet verſus
aliquã diſtãtiã põnis:niſi rõne q̃ntitatis acq̃rẽde citra pũctũ
talez g erit pellẽs illũ pũctũ:ꝛ q̃ntũ acq̃rit d q̃nti^te citra pũ
ctũ talez tãtũ ptrãſibit me^te motu illi^o pũcti vt ↄſtat. Si g̃
p totũ rarefiat me^te vno extrẽo rõne illi^o rarefactionis ci-
tra aliud extremũ n^o q̃ntitas acq̃ret q̃ ipſaz pelleret vl mo
ueret.id g̃ extremũ qeſceret.ꝛ ſic dõʒ eſt de extremo ptis
ſi ſolũ ps ſʒ ſe totã rarefieret ꝛ ↄſilr ẽ de ↄdẽſatiõe. ¶ Ex h̃
ↄcludit q ſi foret vnũ ifi^m nõ poſſet p totũ certo g^u finito
diminui p ↄdẽſationẽ moto extrẽo finito:tũc.n.nullus fo-
ret pũct^o qeſcẽtiſſimo ſeq̃ret q nullibi eſt aliqs pũct^o quo-
cũqʒ iſtãti dato poſt h̃:qꝛ an̄ qdcũqʒ iſtãs ifi^m trãſiret ex-
tremũ ei^o ꝛ rõne ↄdẽſatiõis pmi pedalis aliq̃lr trãſiret:ꝛ
rõne ↄdẽſatiõis alteri^o pedalis min^o:ꝛ ſic in ifi^m:eo q oia ta
lia pedalia eq̃lr pderẽt de q̃^te.nullibi g̃ q̃cũqʒ iſtãti dato
eẽt pũct^o iſte extremalis nec a fortiori aliqs alr^o. ¶ Ex h̃
et ps q nõ eſt poſſe aliqd a nõ q̃to ꝛ a certo g^u raritatis ra
reficeri:qꝛ tũc an̄ qdcũqʒ iſtãs datũ foret ifinite rarũ: qꝛ in
infi^m modicũ ↄtinẽs de mã ꝛ eẽt certe q̃ntitatis vt notũ eſt ſi
nõ fiat noua acq̃ſitio mãe.Jme^te.n.poſt h̃ in ifi^m modicũ de
mã ↄtineret.cũ g̃ fieret certe q̃ntitatis ipm et fieret ifinite ra-
rũ:ꝛ ſic in ifi^m oĩa pũcta a ſe inuicẽ diſtarẽt:ꝛ p ↄñs nõ cõnti
ps g̃ q fuit pbãdum. Cũ plura poſſent hic fieri ſophiſma-
ta que ſi bñ itelligant ppoſita ſatis facilr diſſoluuntur.

¶ Tractatus ſextus de velocitate motus augmentationis.

p^a põ q̃ eſt Heyberi. **R Eneg** qd velocitas mot^o augmẽtationis attẽ-
dit eſt dõʒ:in q̃ mã due ſũt põnes
quaꝝ vna ponit q velocitas augmẽtationis attẽ-
dit penes ppor^ne acq̃ſitionẽ q̃ntitatis vt ſi leq̃lia
eq̃ue^r augmẽtabũt ſi vnũ augmẽtabit ad du^m
reliquũ et ad du^m:ꝛ ſi vnũ ad ſexq̃alterũ reliquũ ad ſexq̃-
alterũ:ꝛ ſic de oi alia ppor^ne:ꝛ ſi du^m augmẽtabit cum ſuo
ſubdu^o eq̃ue^r reqrit q in du^o veloci^s acq̃rat de q̃^te q̃ illud
ſubdu^m:qꝛ alr nõ eq̃ pportiõabilr augmẽtaret vt ↄſtat.

ↄ põnez **Contra** quã põnez ar^r ſic. Data illa ſeq̃t q aliq̃ ſunt
duo eq̃lia q̃ ↄti^e ineq̃ue^r augmẽtabunt:ꝛ id
qd veloci^s augmẽtabit ↄti^e manebit min^o: que tñ eſt falſa.
Si.n.ↄti^e eq̃ue^r augmẽtaret ſp manerẽt eq̃lia:g̃ ſi vnũ alio
veloci^s augmẽtabit id erit alio mai^o:ꝛ p ↄñs nõ erit min^o.
Et q iſta ↄ ſeq̃t ar^r ſic. Sint.a.ꝛ.b.duo eq̃lia q̃ eq̃ue^r acq̃-
rãt de quãti^te depdat.a.tñ de q̃ntitate min^o q̃ acq̃rat ꝛ nõ
depdat.b.aliquã q̃nti^te:tũc ſic arg^r.a.ↄtinue erit min^o.b.ꝛ
eq̃ue^r acq̃ret d q̃^te ſic.b.g̃ magis ſibi ppor^le acq̃ret.a. ↄti-
nue de quãti^te q̃.b.ꝛ ſi ſic iux̃ põnẽ ↄti^e veloci^s augmẽtabit
a.q̃.b.Et q.a.erit ſp min^o.b.pʒ:qꝛ ſi nihil depdẽret eq̃ue^r
augmẽtaret.a.ꝛ.b.ꝛ ſp.a.manẽret eq̃le.b. ſʒ nũc eſt minus q̃
tũc:eo q erit depditio quãti^tis:g̃ ſeq̃t ↄ. ¶ Jo forte ne^r illa
ↄña.a.ↄtinue erit min^o.b.ꝛ tñtũ acq̃ret.a.ſic.b.g̃ veloci^s au
gmẽtabit q̃.b.ſʒ bñ iſtud ſeq̃ret ſi nõ foret depditio quã-
titatis. ¶ Cõtra.hic q̃rit tũc penes qd ſimplr attẽdit ve-
locitas mot^o augmẽtatiõis ſiue ſit depditio quãtitatis ſiue
nõ. Si dĩ p^o:tũc reddit ar^m:ꝛ ſi ita nõ dĩ iſufficiẽs erit põ.

z^a ↄ ¶ Ex hac põne quedã ↄnes deducunt falſe. Si ſint duo
ſiue eq̃lia ſiue ineq̃lia que ↄtinue eq̃ue^r diminuuntur eque-
cito deuenient ad nõ q̃ntũ: qꝛ ſi nõ ſint.a.b.duo ſiue eq̃lia
ſiue ineq̃lia ꝛ ↄtinue equevelo^r diminuant: ꝛ diminuatur
vtrũqʒ ad nõ q̃ntũ:ꝛ arguit q iſta equecito deuenirent ad

nō q̄ntū:ꝙ capiat̄ tp̄s in quo vnum erit diminutū vſq; ad
nō q̄ntū:ꝛ ſeq̄t ꝙ īfinite ꝓpor^r diminuet̄: ꝛ aliud tātū ſibi
ꝓpor^le deꝑdet in illo tp̄e ſicut id: ḡ aliud in iſto tp̄e dimi-
nuet̄ ad nō quātū.minor pꝫ:q2 iſta equeuc^r diminuēt̄ur.
3° ꝫ ¶ Siłr ſiue eq̄lia ſiue ineq̄lia ieq̄ueuc^r diminuant̄:ita ꝙ
vnū finite veloci⁹ alio diminuat̄ / ſeq̄t̄ iſta ad nō quātum
equeuc^r deuenire.Cū.n.vnū ad nō quātū deuenerit infi^m
ꝓpor^le ſibi deꝑdet:ꝛ aliud ſolū finite min⁹ ſibi ꝓpor^le de-
4° ꝫ perdet:ꝛ per ꝯñs in iſto tp̄e deueniet ad nō quātū. ¶ De
qd̄ a nō quāto icipit augeri in infi^m velociter incipit augeri:
q2 ante qd̄cūq; inſtās erit aliquātulū ꝛ ſubduplū ꝛ ſub-
quadruplū ꝛ ſic in īfi^m:ḡ añ qd̄cūq; inſtās in īfi^m ſibi pro-
5° ꝫ portionale acq̄ret:ꝛ p ꝯñs infi^m velo^r icipit augeri. ¶ Si
ꝛ ē ſub- aliqua a nō quāto incipiūt augeri:quoꝝ vnū alio in certa
tilis. ꝓportione veloci⁹ augmētabit̄:illud qd̄ cōtinue velocius
augmētabit̄ per magnū tp̄s erit min⁹ q̄ꝫ reliquū:q2 ſi non
ſint.a.ꝛ.b.duo talia:ꝛ ponat̄ gr̄a ar^li ꝙ.a.ꝯtinue in du⁹ ve-
locius augmētabit̄ q̄ꝫ.b.tūc ſi.a.cōtinue erit maius.b.det̄
inſtās tale in quo erit mai⁹.b.ꝛ ſit.c.in quo.a.erit in duplo
maius.b.gr̄a exēpli ꝛ ſignet̄ inſtās citra illud in quo inſtāti
b.erit in duplo min⁹ q̄ꝫ erit in illo inſtāti dato:ꝙ inſtās ſit
d.ꝛ arguit̄ ſic.b.in tp̄e medio inter.c.d. ad duplū augmē-
tabit̄:ꝛ.a.in duplo veloci⁹ augmētabit̄ q̄ꝫ.b. ergo tunc.a.
augmētabit̄ ad q̄druplū:ḡ in.c.inſtāti erit.a. in q̄druplo
maius q̄ꝫ in.d.inſtāti:ꝛ in.c.inſtāti erit.a.duplū ad.b. ḡ in
Regla p- d.inſtāti erit eq̄le.b.ꝯña tenet per ꝟ. ¶ Si ſint duo:quoꝝ
portionū. vnū ſit duplū ad reliquū:ad idē ſe hꝫ illud du^m in ꝓpor-
tione q̄drupla ad qd̄ idē ſubdu^m ſe hꝫ in ꝓportiōe dupla:
eo ꝙ ꝓportio q̄drupla cōponit̄ ex duab⁹ duplis:ꝛ ſequit̄
velocit⁹ ꝙ ſi in.d. inſtāti erit.a.eq̄le.b. ꝯtinue añ illud inſtās
erit.a.min⁹.b.eo ꝙ ꝯtinue añ illud inſtās magis ſibi ꝓpor-
tionale acq̄rit.a.q̄ꝫ.b. ¶ Uel ſic arguit̄ gn̄alr. Sit.c.inſtās
aliqd̄ in quo.a.erit maius.b.in certa propor^ne.que ſit.f.ꝛ ſit
d.inſtās vt prius:in quo erit.b.in.f.ꝓportione minus q̄ꝫ erit
in.c.tunc arguit̄ ꝙ in.d.inſtāti erit.a.eq̄le.b.q2 inter.d.ꝛ.c.
inſtās augmētabit̄.b.per.f.ꝓportionē:ꝛ.a.in du⁹ velocius
augmentabit̄ q̄ꝫ.b.igit̄ in.c.inſtāti erit ꝓportio q̄ntitatis.
a.ad q̄ntitatē hn̄dam in.d. inſtāti ꝯtinēs duas.f. ꝓportio-
nes:ꝛ tunc ſe habebit.a.ad.b.in.f.ꝓportione:ergo in.d. in-
ſtāti erit.a.eq̄le.b.ꝯña pꝫ.ſic in.c.inſtāti erit.a.in.f. ꝓpor^ne
maius.b.ꝛ.b.tūc ſe habebit ad q̄ntitatē in.d.inſtāti habē-
dam in.f. ꝓportione:ergo ꝓportio.a.in.c. inſtāti ad quāti-
tatē.b.in.d.inſtāti hn̄dam erit cōpoſita ex duab⁹.f.ꝓpor-
Regula. tionib⁹.ꝯñtia pꝫ per hoc. ¶ Quibuſcūq; duob⁹ extremis
captis interpoſito me⁹:ꝓportio primi ad 3^m cōponit̄ ex
ꝓportione primi ad 2^m:ꝛ ſc̄di ad 3^m.cū ḡ ꝓportio quātita-
tis.a.habēde in.c.inſtāti ad quātitatē habēdam in.d.inſtāti
erit etiā cōpoſita ex duab⁹.f.ꝓportionib⁹. pꝫ ꝙ in.d.inſtā-
ti erūt.a.ꝛ.b.eq̄lia:ꝛ ſi ſic ꝯtinue ante.d. inſtās erit.a.min⁹
b.qd̄ fuit ꝓbandū:q2 ſicut arguit̄ q̄ñ.a. ꝯtinue augmēta-
bit̄ in duplo velocius q̄ꝫ.b.ſic de omni alia ꝓportione eſt
6° ꝫ. arguēdū. ¶ Ex hoc ſequit̄ ꝙ ſi aliq̄ a nō quāto incipiant
augeri.quoꝝ vnū alio cōtinue in certa ꝓportiōe velocius
augmētabit̄:id qd̄ ꝯtinue velocius augmētabit̄ in īfinitū
minus icipit eē alio.Ponat̄ enim de.a.ꝛ.b.vt prius:tūc vt
argutū eſt:ſi.a. erit maius.b.ſequit̄ ꝙ.a. aliq̄n erit eq̄le.b.
ꝛ per ꝯñs cū ſemꝑ.a.augmētabit̄ ad q̄druplū q̄ñ.b.augmē-
tabit̄ ad du^m:ſequit̄ ꝙ in illo inſtāti in quo.b. erit in duplo
minus q̄ꝫ in inſtāti dato.ſ.d.a. erit in du⁹ min⁹.b. ḡ adhuc
in inſtāti priori in quo.ſ.b.erit in duplo minus q̄ꝫ tūc erit.
erit etiā.a.in quadruplo min⁹ q̄ꝫ.b. ꝛ ſic in infi^m. ꝯña ſatis
pꝫ per hāc regulā. ¶ Nā ſi ſint duo ineq̄lia quoꝝ min⁹
Regla bo- manēs cōtinue minus in duplo velocius augmētabit̄ ꝓ-
na in mī por^r q̄ꝫ maius qd̄ maiorabit̄ ad du^m ꝓpor^o illoꝝ adinicē
ꝓpōnū.

per ꝓpor^nē duplā fiat minor.Sit enim.a. id min⁹ qd̄ ma- augētur
iorabit̄ ad q̄druplū q̄ñ.b.mai⁹ maiorabit̄ ad du^m ꝑcise a.ad.8.ꝛ
ꝛ ſit.c.quātitas ꝑciſe du⁹ ad quāti^tem ſuā quā nūc hꝫ.a.tunc 6.ad.12.
ſic arguit̄.Si.a.maioret̄ ad du^m ſicut.b.tūc maneret eadē
ꝓpor^o.a.ad.b.que nūc eſt iter illa:q2 tūc eq̄ ꝓpor^r augmē-
tarent̄ iſta duo.Sꝫ nūc in fine erit ꝓpor^o quātitatis.b. ad
quāti^tē.a.per ꝓpor^nē duplā minor q̄ꝫ tūc eēt.ḡ hē ꝓpo^nē.
Minor ſic ar^r.c.quātitas eſt du⁹ ad quātitatē.a.ꝛ quātitas
quā.a.hēbit in fine erit du⁹ ad.c.quāti^tē: eo ꝙ.a. maiora-
bit̄ ad q̄dru^m:ḡ in fine erit ꝓpor^o quāti^tis.b.ad.c.maior ꝓ-
portione quāti^tis.b.ad quāti^tem.a.per ꝓpor^nē duplā.Si.n. Regula.
aliqd̄ ad duo ineq̄lia in ꝓpor^ne maioris ineq̄litatis cōpat̄
ꝓpor^o p̄mi ad 3^m excedit ꝓportionē primi ad 2^m per pro-
portionē ſc̄di ad 3^m:eo ꝙ tota propor^o ex illis duab⁹ eſt cō-
poſita.cū ḡ ꝓpor^o quāti^tis.b.ad.c.in fine erit tāta ſicut nūc
eſt.b.ad.a.ſi ſolū.a.acq̄reret.c.ꝛ nō plus.a.ꝛ.b.manerēt eq̄
ꝓportiōabilia:ſꝫ q2 trāſit.c.ꝑ du^m:pꝫ ꝙ ꝓpor^o.b.ad.a.mi-
norabit̄ per ꝓpor^nē duplā.ſ.q̄ eſt.c.ad.a.quā deꝑdet ma-
iorato.b.ad ſuū du^m.Cū ḡ añ qd̄cūq; inſtās datū īfinities
maiorat^r.b.ad du^m:ꝛ.a.ad q̄dru^m:ſeq̄t ꝙ añ qd̄cūq; inſtās
datū erūt īfi^te ꝓpor^nes du^e iter.b.ꝛ.a.deꝑdite:ḡ in infinitū
mai⁹ icipit eē.b.q̄ꝫ.a.ꝛ ſic de oīb⁹ aliis eſt arguēdū: quoꝝ
vnū in certa ꝓpor^ne veloci⁹ ꝯtinue a⁹ augmētabit̄.ḡ ſc^r ꝫ.
¶ Stat tñ aliq̄ a nō quāto augeri: quoꝝ vnū a⁹ ꝯtinue 7° ꝫ
veloci⁹ augmētabit̄:ꝛ tñ id qd̄ veloci⁹ augmētabit̄ ꝯtinue
erit mai⁹.Hec ꝯcl'o vī repugnās q̄tte ꝫni:ꝛ ꝟ arg^r ſic.Sit
a.maius.b.in certa ꝓpor^ne ꝛ diuidat̄ hora in ptes ꝓpor^les
v̄ſus ſinē ꝛ diminuat̄.b.in oī pte ꝓpor^li ad ſubdu^m ꝛ dimi-
nuat̄.a.ſic ꝙ ꝓpor^o iter.a.ꝛ.b.in oī pte ꝓpor^li diminuatur
ad ſubdu^m:ita ꝙ propor^o.a.ad.b.in fine cuiuſlꝫ ptis pro-
portionalis erit in du⁹ minor q̄ꝫ in p̄n⁹ eiuſdē ptis propor-
tionalis qd̄ eſt ſatis poſſe:eo ꝙ ꝓpor^o duoꝝ ineq̄liū pōt
minorari minorato termio miori qd̄ nō eēt niſi terminus
maior mioret̄.quo poſito.a.ꝯtinue erit mai⁹.b.vt notū eſt
per caſū:ꝛ ꝯtinue veloci⁹ diminuet̄ q̄ꝫ.b.q2.b.in oī parte
ꝓpor^li miorabit̄ ad ſubdu^m ꝛ ꝓpor^o.a.ad.b.ꝯtinue mino-
rabit̄:ḡ cōtinue veloci⁹ ꝓportionabil^r maiorabit̄.a.q̄ꝫ.b.
ꝯña tenet ꝑ ꝟ.Si proportio maioris ad min⁹ miloretur ꝛ Reg^a o-
vterq; terminus miorēt veloci⁹ propor^r miora^r maior ter po.uoli.
min⁹ q̄ꝫ mior vt ꝯſtat:ꝛ ſi i⁹ propor^o miorēt ꝑ maioratio-
nes vtriuſq; termini tardi⁹ propor^r maiora^r maior q̄ꝫ mi-
nor:q2 ſi maior termin⁹ eq̄ ꝓpor^r maioret̄ cū minori tota
ꝓpor^o ſemꝑ maneret tāta ſicut eſt in p̄n⁹: ꝛ ſi velocius ꝓ-
por^r maioret̄ termin⁹ maior q̄ꝫ minor tota ꝓpor^o maiora-
ret̄ ſicut ſatis pꝫ itelligēti.ſeq̄t ḡ ꝙ ꝯtinue veloci⁹ miora-
bit̄.a.q̄ꝫ.b.ꝛ equeuc^r deuenient ad nō q̄ntū: q2 ex quo pro-
portio.a.ad.b.minorabit̄ ad nō gradū:ꝛ.b.minorabit̄ ad
nō q̄ntū:ſeq̄t ꝙ.a.minorabit̄ ad nō q̄ntū.alr.n. ꝓpor^o.a.ad
b.in īfi^m maioraret̄:ḡ ſtabit c3.a.ꝯtinue veloci⁹ augmēta-
ri q̄ꝫ.b.vtroq; icipiēte a nō q̄nto:ita ꝙ.a.ꝯti^e veloci⁹ augmē-
tabit̄ q̄ꝫ.b.ꝛ ſꝑ maneret mai⁹.b. ¶ Jō ꝯcl'o eſt ꝯcedēda:ꝛ
dī ꝙ i^a nō repugnat 5^e ꝫni.q̄tta.n.ꝯcl'o ponit̄ vbi vnū in
certa ꝓpor^ne veloci⁹ a⁹ icipit augmētari.Et in i^a 7ª ꝫne in
nulla ꝓpor^ne.a.icipit veloci⁹ augeri q̄ꝫ.b.qd̄ ſic arg^r.in via
diminutionis īfi^te modica erit aliq̄ñ ꝓpor^o.a.ad.b.eo ꝙ i^a
ꝓpor^o minorabit̄ ad nō g^m:ꝛ.a.in nulla pte ꝓpor^li maiorē
ꝓportionē deꝑdet q̄ꝫ erit in p̄n⁹ eiuſdē ptis ꝓpor^lis.a.ad
b.nec etiā tantā:ḡ infinite modicū veloci⁹ miorabi^r aliq̄ñ
a.q̄ꝫ.b.ꝛ ſic erit c3 in via augmētatiōis ꝙ īfi^te modicū velo-
ci⁹ tūc icipiet.a.augeri q̄ꝫ.b.ꝛ ſic nō eſt i^a ꝯcl'o cōtra q̄ntā.
¶ Arguit̄ tñ ꝫ 5^am ꝫnē ſic. Si.a.b. ꝯti^e eq̄ue^c augmētēt̄: 35^am
tūc ſꝑ manerēt eq̄lia:eo ꝙ vtrūq; i^m a nō q̄nto icipit auge- ꝫnem.
ri:ergo a fortiori ſi.a.ꝯti^e velocius augmētabit̄ q̄ꝫ.b.ſemꝑ
erit mai⁹.b.q2 tūc erit ꝯti^e mai⁹ q̄ꝫ ſi ꝑciſe equeuc^r augeret̄

Solo cũ.b.¶ Pro p° iuxta hũc põnẽ neg͂ãda eſt vtraq; ꝯña facta qꝺ ſic declarať. Sit.a.in du° mai⁹.b.⁊ diminuať p^m ad non q̃tũ eque uel⁹:⁊ ſeqť p ꝯnez z^am ꝙ equeuelo deueniẽt ad nõ q̃titatẽ.a.ſemp erit maius.ſ.duplũ ad.b.eo ꝙ eque ꝓpoř minorabunť.a.b.ğ ſi eẽ augmentarenť eque⁹ a nõ q̃to.ſ. eque uel⁹ oĩno ſic nũc diminuunť ſemp eẽt.a.maius.b. ğ nõ valet p^m ar^m:nec z^m valet ſic ſatis arguitũ eſt in ꝯne 6^a:ibi pbať ꝙ ſi aliqꝺ icipiat n° in certa ꝓpoř^ne augeri velocius a nõ q̃to in iſi^m magnũ icipit eẽ ꝓportio q̃titatis tardi⁹ aucti ad q̃titatẽ veloci⁹ aucti quãtũcũq; modica q̃titas acqrať.nec eſt icõueniẽs vbi iſinite velox icipit eẽ vtrq; mot⁹ augmẽtatiõis:qꝛ ibi ſubito infinita la^de remittiť vel deꝑdiť.nec ẽt eſt incõueniẽs ꝙ vtrq; mot⁹ icipiat eſſe in infi^m velox:⁊ tñ ꝙ vn⁹ ꝓ oĩ inſtãti erit a° velocior ſicut ſi mot⁹ vn⁹ eſſet duplus ad aliũ ğ eque ꝓpoř augmentaretť in iſi^m ſꝫ iſte mot⁹ maneret duplus ad aliũ:⁊ tñ in infi^m velox vterq; iſtoꝝ eẽt:⁊ ſic ſtaret eẽ de iceptiõe ſic nˢ eſt

5um ⁊ 6um de deſitiõe.¶ Alr̃ tñ ar^r ꝯ 5um ⁊ 6um. Nã datis iſtis ſeqť ꝙ oẽ qꝺ a nõ q̃to icipit augeri in iſi^m tarde icipit acqrere de q̃ti^te vel iſi^te velociter quoꝝ vtrũq; eſt fſm. ſtaret.n.q̃ti^tem alic⁹ deꝑdi vnir̃ ad nõ q̃tũ vt ꝯſtat: ğ eẽ ſtaret vniformis acqſitio q̃ti^te a nõ q̃to. Qꝺ tñ iſta ſeqtať arguiť ſic:qꝛ ſi nõ ſit illud.a.⁊ incipiat.b.augeri a nõ q̃to in du° tardi⁹ q̃.a. tũc ſic ar^r p ꝯnez ſeptã:iſi^te icipit eẽ ꝓpoř° q̃ti^te.b.ad q̃ti^tem a.⁊ a nõ q̃to icipit vtrũq; augeri:ğ iſinite veloci⁹ icipit.b. acqrere de q̃ti^te q̃.a.⁊.b.finite velo^r:ğ.a.infi^te tarde.vel ſi b.infi^te tarde icipit acqrere de quãti^te,idez ſeqť vt notũ ẽ. Si vo° di ꝙ.b.iſi^te velo^r ⁊c̃.p idez ar^r ꝙ.a.iſinite velo^r icipit acqrere de quãtitate:qꝛ ſit.c.vnũ qꝺ in du° veloci⁹ ꝯti^ne augeať q̃.a.⁊ ſeqť ꝙ iſinite veloci⁹ icipit.a.acqrere ꝺ q̃ti^te q̃.c.per ꝯnẽ ſeptã:ğ ſi.c.aliq̃lr velo^r:ſeqť ꝙ.a.in iſi^m velo^r: ⁊ ſic arguẽdũ eſt de.c.re^u alteri⁹ veloci⁹ aucti ⁊ ſic in iſi^m: ⁊ ẽt ſic arguẽdũ eſt de.b.qꝛ capiať vnũ qꝺ ꝯtinue in du° tardi⁹ augeať q̃.b.⁊ ſeqť ꝙ id in infi^m veloci⁹ icipit acqrere q̃titatẽ q̃.b.ğ.b.nõ in iſi^m velo^r icipit acqrere:⁊ ſi ſic ſequiť vt prius ꝙ infinitũ tarde incipit.a.acqrere de quã

Solo titate:⁊ ſic arguẽdũ eſt de.b.⁊ ſic in infi^m. ¶ Pro p° diciť negãdo ꝯnẽ ſic ſatis ꝓbať ar^m.ꝓ q̃ tria nõbilia declaranť:

p^m nota bĩe quoꝝ p^m eſt h̃. ¶ Si aliqꝺ augeať a nõ quãto:⁊ in oĩ pte ꝓpoř^li tpis ſue augmẽtationis augeať ad du^m,cõputando ptes miores v̄ſus illud extremũ ſui tpis:ad certe velociter

z^m inciget acqrere de quãtitate. ¶ Scꝺm eſt h̃. Si aliqꝺ augeať a nõ q̃to:⁊ in oĩ pte ꝓpoř^li iſti⁹ tpis augeať in certa ꝓportiõe vltra du^m ſic vſq; ad triplũ vel q̃dru^m: ⁊ ſic in

3^m infi^m:iſi^te tarde icipit totũ acqrere de quãtitate. ¶ Tertiũ eſt hoc. Si aliqꝺ augeať a nõ q̃to:⁊ in oĩ pte ꝓpoř^li iſtius tpis augeať in certa ꝓportiõe miori q̃ du° in infi^m velo^r

Probatur p^m. incipit acqrere de quãtitate. ¶ Primũ ꝓbať ſic. Si in oĩ pte ꝓpoř^li augeať ad du^m ꝓportiõalr ſicut pꝫ ꝓpoř^le eſt minor aĩa:ita in iſta ꝓpoř^le quãtitas mior acqriť:qꝛ in p^a pte ꝓpoř^li maiorabiť ad du^m vocãdo maximã ptẽ p^mã ptẽ:⁊ ita de z^a:⁊ ſic in iſi^m:cũ ğ iter oẽm g^m ⁊ ſuũ du^m ſit in du° maior lati^do q̃ iter eũdez ⁊ ſuũ ſubdu^m:ğ in du° maiorez quãti^tem acqret in p^a pte ꝓpoř^li q̃ in z^a: ⁊ p ꝯñs eque velociter acqret de quãtitate in z^a pte ꝓpoř^li ſicut in p^ma: ⁊ per idem eque velociter in 3^a pte ꝓportiõali ſicut in z^a ⁊ ſic in iſi^m:poſito gr̃a arg^i ꝙ in oĩ pte ꝓpoř^li ſit vniformis acqſitio quãtitatis:ğ certe velociter nũc incipit acqrere de

Probatur z^m. quãtitate.pꝫ ğ p^m. ¶ Scꝺm ſic arguiť. Si in p^a pte ꝓpoř^li ⁊ in oĩ alia augmẽtabiť vltra du^m ſit.f.illa ꝓpoř° q̃ acqreť in oĩ pte ꝓpoř^li tũc ſic arguiť.in.f.ꝓportione plus acqreť in p^a pte ꝓpoř^li q̃ in z^a:qꝛ capiať quãtitas quã habebit in fine p^e ptis ꝓpoř^lis:⁊ ſeqť ꝙ illa quãtitas ſe hẽbit in.f.ꝓportiõe ad quãtitatẽ hñdaz in p^n° eiuſdez ptis vt pꝫ p caſum:⁊ iſta quã hẽbit in p^n° eiuſdẽ ptis ꝓpoř^lis p^e erit maior in.f.ꝓportiõe iſta quãtitate hñda in p^n° ſcꝺe ptis ꝓpor^lis.ğ in.f.ꝓpoř^ne plus acqret in p^a pte ꝓpoř^li q̃ in z^a.

Regula ꝓportionũ. ꝯña tenet p h̃. ¶ Qꝛ ſi ſint tres termini ꝯtinue ꝓpoř^li:ita eſt ꝓpoř° exceſſus p^mi ſupra z^m ad exceſſũ ſcꝺi ſupra 3^m:quãta eſt ꝓpoř° p^mi ad z^m vel ſcꝺi ad 3^m: vt meli⁹ pꝫ vbi tangiť de motu locali: ğ ſeqť ꝙ in certa ꝓpoř^ne velocius acqret quãtitatẽ in p^a pte ꝓpoř^li q̃ in z^a.ſi enĩ in du° maiorẽ q̃titatẽ ꝑciſe acqret in p^a pte ꝓpoř^li q̃ in z^a: cũ p^a pꝫ ſit du^a ad z^a eque velox eẽt acqſitio:ſꝫ nˢ i p^a pte velocior erit q̃ ⁊c̃.ſ.acqſitio vt pꝫ:ğ velocior erit i certa ꝓpoř^ne acqſitio quãti^te in p^a pte ꝓpoř^li q̃ in z^a:⁊ in eadẽ ꝓpoř^ne erit velocior acqſitio in z^a pte ꝓpoř^li q̃ in 3^a:eo ꝙ eadẽ erit ꝓportio acquiſiti in p^a ad acqſitũ in z^a:ſicut acqſiti in z^a ad acqſitũ in 3^a:qꝛ.f.ꝓportio ⁊ ſic in infi^m: ğ in infi^m tarde incipit acqrere de quãtitate:qꝺ fuit ꝓbãdum. ¶ Tertiũ ſic

Probatur 3^m. arguiť. Creſcat.a.a nõ quãto in oĩ pte ꝓportionali p certã ꝓportionẽ minorez q̃ eſt dupla que ſit.c.ꝓpoř°:⁊ ſeqť ꝙ in oĩ pte ꝓportionali:in.c.ꝓportiõe plus acqrit q̃ in parte ꝓpoř^li minori ipſaz imediate ꝑcedente vt ꝑdictũ eſt de.f. ꝓportiõe in ꝯne prima. Cũ ğ.c.ꝓportio ſit minor q̃ dupla:ſeqť ꝙ velocior acqſitio quãtitatis erit in z^a pte ꝓportionali q̃ in p^a:qꝛ ſi ꝑciſe in duplo minor quãtitas acqreret in z^a pte ꝓpoř^li q̃ in p^a:tũc eque velox eẽt acqſitio in ſcꝺa ſicut in p^a.ſed nũc in z^a plus acqreť q̃ tũc: ğ nũc velocior erit acqſitio quãtitatis in ſcꝺa q̃ in p^a.⁊ in eadez ꝓportiõe erit velocior in 3^a q̃ in z^a ⁊ ſic in infi^m:eo ꝙ eadẽ eſt ꝓportio acqſiti in p^a pte ad acqſitũ in z^a ſic acqſiti in z^a ad acqſitũ in 3^a ⁊ ſic in iſinitũ:quia in.c.ꝓportiõe i^a hꝫ acqſita ſe habebũt:ſeqť ergo ꝙ infinitũ velox incipit eſſe acqſitio quãtitatis qꝺ fuit ꝓbãdũ:⁊ ſic nõ ꝓcedit arg^m ꝯ ſeptã ꝯnez:qꝛ in caſu i° cõcedendũ eſt ꝙ.b.in infinitũ velociter icipit acqrere de quãtitate:qꝛ ex quo.a.certe velociter icipit acqrere ꝺ q̃titate:ſeqť p illa tria nõbilia ꝙ in n° ꝓportiõe icipit veloci⁹ nec tardi⁹ augeri q̃ ſi in oĩ pte ꝓpoř^li augereť ad du^m:⁊ iꝺ cũ.b.in certa ꝓportiõe tardius icipit augeri:ſeqť p 3^m nõbile ꝙ in iſinitũ velociter incipit b.acqrere de quãtitate. ¶ Et cõcedendum eſt ẽt ꝙ omne qꝺ tardius icipit augeri q̃.b.ꝙ illud infinite velociter incipit acquirere de quãtitate.nec eſt incõueniẽs ꝙ oĩa iſta tardius aucta q̃.b.in infi^m veloci⁹ icipiãt acqrere de quãtitate q̃ ipſuz.b.⁊ tñ.b.in iſinitũ velociter icipit augeri vt ꝓbatũ eſt in ſolõne p^mi ar^i ꝯ ꝯnem gntaz. ¶ Similr̃ eſt cõcedendũ ꝙ oẽ velocius auctũ q̃.a.in aliq̃ certa ꝓportione in iſi^m tarde icipit acqrere de quãti^te:vt ꝓbať in z^o notabili ꝯ ſeptã ꝯnez:⁊ additť ille termin⁹ in certa ꝓpoř^ne: qꝛ alr̃ ſtaret ꝙ in nulla ꝓpoř^ne tardius inciperet tale acqrere de quãtitate q̃.a.ſꝫ in caſu veloci⁹ iciperet acqrere ꝺ quãtitate q̃.a.vt arguitũ eſt in ꝯne 7^a: ⁊ ſic nõ ꝓcedit ar^m.

8^a ꝯ ¶ Ex ꝑdictis deduciť ꝙ in iſi^m velo^r incipit aliqꝺ augeri qꝺ in iſi^m tarde icipit augeri,incipiãt.n.iſi^ta creſcere a non quãto ⁊ augmẽteť p^m in du° veloci⁹ z° ⁊ z^m in du° veloci⁹ 3° ⁊ ſic in iſi^m:tũc in iſi^m velo^r incipit qꝺlʒ iſtoꝝ augeri:qꝛ a nõ quãto ⁊ in iſi^m tarde ꝯtinue augmẽtabiť aliqꝺ iſtoꝝ: qꝛ z^m in du° tardius p^mo ⁊ ſic in iſi^m.ğ ſequiť ꝯclo. Caſus pꝫ.incipiat.n.circulus circũuolui remittẽdo motũ ſuum a gradu infinito:⁊ ſequiť ꝙ qꝺlibet illoꝝ punctoꝝ icipit in infinitũ velociter moueri:⁊ tñ punct⁹ prim⁹ ꝓ oĩ inſtãti in duplo velocius mouebiť q̃ punct⁹ medius inter ipſum ⁊ centrũ ⁊ ſic in infi^m vocãdo p^m punctũ aliquẽ punctũ in circũferẽtia vltima.

9^a ꝯ ¶ Infinitũ tarde incipit aliqꝺ augeri qꝺ infinitã quãtitatez incipit acqrere:⁊ infinitũ velociter incipit aliqꝺ augeri qꝺ ꝯtinue iſinitũ tarde acqrit quãti^tez. Sint enim infinita quãta quoꝝ p^mũ ſit aliquãtũ ⁊ ſcꝺm in quadruplo mai⁹ q̃ p^m: ⁊ 3^m in quadruplo mai⁹ q̃ z^m: ⁊ ſic in iſi^m: ⁊ augeať p^m aliq̃lr ve^r ⁊ z^m in du° tardi⁹ ⁊ ſic in

infiᵐ: ⁊ ſeq̃t̃ pᵃ ꝑticula ꝯnis: qꝛ ſi pᵐ eque᷑ ꝑciſe augmẽtaret̃ ſicut zᵐ: ſcꝫ in q̃druᵒ veloci⁹ acq̃reret de q̃ͣtitate q̃ꝫ pᵐ. Sꝫ nũc in duᵒ veloci⁹ icipit pᵐ acq̃rere de q̃ͣtitᵗᵉ q̃ꝫ tũc: ꝙ in duᵒ veloci⁹ icipit zᵐ acq̃rere de q̃ͣtitᵗᵉ q̃ꝫ pᵐ: ⁊ ſic 3ᵐ in duᵒ veloci⁹ zᵒ ⁊ ſic in ifiᵐ: cũ ꝙ pmo illoꝝ añ q̃õlibꝫ inſtãs erit aliq̃ q̃ͣtitas acq̃ſita: ſeq̃t̃ ꝙ añ q̃õcũqꝫ inſtãs ifiᵗᵃ q̃ꝫᵗᵃ erit acq̃ſita alicui illoꝝ: ⁊ ſemꝑ tardi⁹ aucto maior q̃ͣtitas acq̃rit̃ q̃ꝫ veloci⁹ aucto ſaltꝫ per tp̃s aliq̃õ: ꝙ ſequit̃ pᵃ ꝑticula ꝯnis. Añs pꝛiui arᵗⁱ pꝫ. Si. n. zᵐ eque᷑ iciperet augeri ſicut pᵐ eque ꝓportionabil'r iciperet acq̃rere de q̃ͣtitate: cũ ꝙ zᵐ ſit q̃druplũ ad pᵐ: pꝫ ꝙ tũc in q̃druplo veloci⁹ acq̃reret de q̃ͣtitate q̃ꝫ pᵐ. ſed pᵐ nũc in duᵒ veloci⁹ icipit acq̃rere de q̃ͣtitate q̃ꝫ ſi augeret̃ iᵒ gradu quo augmẽtabit̃ zᵐ: qꝛ nunc in duplo veloci⁹ augmẽtabit̃ q̃ꝫ tũc: ꝙ ſeq̃t̃ iaꝫ pᵃ pſ ꝯnis: ⁊ zᵃ pſ ſic arguit̃. ¶ Sint ifinita quoꝝ pᵐ ſit aliquãtum ⁊ zᵐ in q̃druᵒ mĩn⁹ ⁊ ſic in ifiᵐ. ⁊ diminuat̃ pᵐ aliq̃l'r velo' ⁊ zᵐ in duplo veloci⁹ ⁊ ſic in ifiᵐ ꝑ aliq̃õ tp̃s in quo nullũ diminuat̃ ad nõ q̃ͣtũ: tũc zᵐ in duᵒ tardi⁹ icipit deꝑdere de q̃ͣtitate q̃ꝫ pᵐ: qꝛ ſi pᵐ eque᷑ diminuet̃ ſicut zᵐ in q̃druplo veloci⁹ deꝑderet de q̃ͣtitate q̃ꝫ zᵐ. ſed nũc in duᵒ tardius incipit pᵐ deꝑdere de q̃ͣtitate q̃ꝫ tũc: qꝛ in duplo tardi⁹ incipit diminui q̃ꝫ tũc diminueret: ꝙ in duplo veloci⁹ incipit pᵐ deꝑdere de q̃ͣtitate q̃ꝫ zᵐ ⁊ ſic in ifiᵐ: ⁊ ſemꝑ veloci⁹ diminutũ tardius deꝑdet de q̃ͣtitate q̃ꝫ tardius diminutũ: ꝙ ſi ſtaret ecõtra ꝯſil'is augmentatio ſicut nũc eſt diminutio

10ª ꝯ ſequeret̃ ꝯclõ. ¶ Si incipiãt duo ordines aliquoꝝ a non gradu creſcẽtiũ augeri: ⁊ pᵐ vni⁹ ordinis in duplo veloci⁹ ꝑciſe ꝯtinue augmẽtabit̃ q̃ꝫ zᵐ eiuſdẽ ordis: ⁊ zᵐ in duplo veloci⁹ q̃ꝫ 3ᵐ eiuſdeꝫ ⁊ ſic in infiᵐ: ⁊ pᵐ ſcdi ordis in duplo veloci⁹ pmo pꝛimi ordinis: ⁊ zᵐ in duplo veloci⁹ ꝑ eiuſdeꝫ ordinis ⁊ ſic in infiᵐ: ſeq̃t̃ ꝙ ifinite velo' ⁊ ifinitã magnaꝫ q̃ͣtitatẽ icipit aliq̃õ pꝛimi ordis acq̃rere ifinite tarde auctũ ⁊ ifinite tarde ꝯtinue acq̃ret aliq̃d alteri⁹ ordis de q̃ͣtitate ifinite velociter ꝯtinue auctũ. Sint. n. ifiᵗᵃ quoꝝ pᵐ ſit aliq̃ͣtũ ⁊ zᵐ in duplo mai⁹ ⁊ ſic in ifiᵐ: ⁊ diminuat̃ primũ aliq̃l'r velociter ⁊ zᵐ in duᵒ tardi⁹ ⁊ ſic in ifiᵐ: ⁊ diminuat̃ ad nõ q̃ͣtũ in iſta hora. Et ſint aᵒ ifinita quoꝝ pᵐ ſit in duᵒ mĩn⁹ q̃ꝫ pᵐ illi⁹ pꝛimi ordis: ⁊ zᵐ in q̃druplo mĩn⁹ pmo: ⁊ ſic in ifiᵐ. ⁊ diminuat̃ pᵐ illoꝝ in duᵒ veloci⁹ pmo alteri⁹ ordinis: ⁊ zᵐ in duplo veloci⁹ q̃ꝫ pᵐ ⁊ ſic in infiᵐ: ⁊ diminuat̃ ad nõ q̃ͣtũ in eadeꝫ hora in q̃ aᵃ diminuent̃ ad nõ q̃ͣtũ ſicut appꝫ poſſe ex ꝯne 3ᵃ. quo poſito ponit̃ ꝙ in alia hora augmẽtent̃ oĩa a non q̃ͣto ſicut in 1ᵃ hora diminuebant̃: ⁊ ſit nũc inſtãs pᵐ illi⁹ hore: ⁊ ſeq̃t̃ ꝙ oĩa a nõ q̃ͣto icipiũt augeri ⁊ illi⁹ pꝛimi ordis aliq̃d fiet ſubito infiᵐ: qꝛ in via diminutionis fuit aliq̃d illoꝝ ꝯtinue infinite q̃ͣtitatis: ⁊ pᵐ aliq̃l'r velociter augmẽtabit̃ ⁊ zᵐ in duᵒ tardi⁹ ⁊ ſic in infiᵐ: ſicut in via diminutiõis. Et alteri⁹ ordis pᵐ in duᵒ veloci⁹ augmẽtabit̃ pmo illi⁹ ordis: ⁊ zᵐ in duᵒ veloci⁹ pmo ⁊ ſic in infiᵐ vt poſitũ eſt: ⁊ tñ infiᵗᵉ modice q̃ͣtiᵗᵃᵗᵉ erit aliq̃õ illoꝝ ſicut fuit in via diminutiõis: ꝙ ſeq̃t̃ ꝯ. ¶ Iſte ꝯnes licꝫ ꝯcedende ſint a ponẽtib⁹ põnem illã ⁊c. ſunt tñ multũ mirabiles: qꝛ ſicut in motu locali id q̃õ veloci⁹ mouebit̃ neceſſario plus de ſpatio ꝑtrãſiet vel acq̃rit: ⁊ in alteratiõe id q̃õ veloci⁹ alterat̃ neceſſario maiorẽ latiᵗᵘᵈⁱⁿᵉᵐ acq̃rit vel deꝑdit: ita ẽt vĩ rõnabile de augmẽtatiõe: ꝙ ſi duo a nõ q̃ͣto augmẽtet̃ id q̃õ eſt ve

11ª ꝯ locius auctũ veloci⁹ acq̃rit de q̃ͣtitate. ¶ Itẽ deducit̃ vna ꝯclõ. ſ. ꝙ aliq̃õ finitũ ifinite velociter diminuet̃ ꝯtinue q̃õ tñ in 1ᵃ hora ꝑciſe deueniet ad nõ q̃ͣtũ. Diuidat̃. n. a. in ptes ꝓportiõᵉˢ ⁊ diminuat̃ pᵃ pſ ꝓportiõᵃˡⁱˢ iſti⁹ ad nõ q̃ͣtũ in 1ᵃ hora: ⁊ ſic zᵃ pſ in duᵒ veloci⁹ pᵃ ⁊ ſic in ifiᵐ: tũc ſic. b infinitũ velociter diminuet̃ ꝯtinue: qꝛ ſi pᵃ pars ꝓportiõᵃˡⁱˢ alic⁹ aliq̃l'r velociter remittet̃: ⁊ zᵃ in duplo velocius: ⁊ 3ᵃ in q̃druplo veloci⁹ q̃ꝫ pᵃ: ⁊ ſic in ifiᵐ: totũ ifinite velociter remittet̃: ꝙ ꝑ ideꝫ infiᵗᵉ velo' diminuet̃ ⁊ in hora ꝑciſe deueniet ad non q̃ͣtũ: qꝛ equeᵉ ꝑciſe diminuet̃ pᵃ pſ ꝓportiõᵃˡⁱˢ ad nõ q̃ͣtũ ſicut aliq̃ aᵒ vt pri⁹ argutũ eſt in ꝯne 3ᵃ. ¶ Pro iſtis negat̃ ꝯclõ: di ꝙ ifinite velo' icipit totũ diminui ⁊ pro oĩ inſtãti finite velo' diminuet̃. naꝫ pᵃ pſ ꝓportiõᵃˡⁱˢ eſt in duᵒ maior zᵃ: ⁊ in duᵒ tardi⁹ icipit diminui: ꝙ eque᷑ icipit deꝑdere de q̃ͣtitate zᵃ pſ ꝓportiõᵃˡⁱˢ ſicut pᵃ. ꝯñs pꝫ per illã põnem: ⁊ ſic de oib⁹ alijs ꝑtib⁹ ꝓportionabilib⁹: iõ totũ in ifiᵐ velo' incipit deꝑdere de q̃ͣtitᵗᵉ: ⁊ per ꝯñs infiᵐ velo' icipit diminui. Sed pro oĩ inſtãti dato erit zᵃ pſ ꝓportiõᵃˡⁱˢ minor q̃ꝫ ſubdupla ad pmã: eo ꝙ eque᷑ incipit deꝑdere de q̃ͣtitᵗᵉ ſicut pᵃ: ⁊ ſil'r tũc erit minor q̃ꝫ ſubdupla ⁊ veloci⁹ ꝓpoꝛ' miorabit̃ q̃ꝫ pᵃ: ideo licꝫ in duᵒ veloci⁹ tũc diminuet̃ zᵃ pſ ꝓportiõᵃˡⁱˢ q̃ꝫ pma: tñ in eadẽ ꝓportiõe tardi⁹ deꝑdet de q̃ͣtitate q̃ꝫ pᵃ: ⁊ 3ᵃ tardius q̃ꝫ zᵃ in eadeꝫ ꝓportiõᵉ. ⁊ iõ tũc totũ ſolum finite velociter deꝑdet de q̃ͣtitate ⁊ erit aliq̃ͣtũ: ideo ſolꝫ finite ſibi ꝓportiõᵃˡ'ᵉ deꝑdet: ⁊ iõ ſolũ finite velociter diminuet̃. ¶ Contra h̃ ſic arguit̃. Ponat̃ de oĩ pte ꝓportiõᵃˡⁱ ipſi⁹. a. ꝙ ſicut erit. b. minor pᵃ: ſic veloci⁹ diminuet̃ ꝓtunc q̃ꝫ pma: ⁊ ſeq̃t̃ ꝙ totũ ꝯtinue ifinite velo' diminuet̃. Sicut. n. pars. a. ꝓportiõᵃˡⁱˢ erit minor pᵃ ſic veloci⁹ diminuet̃: ꝙ oĩs talis pars cõtinue eque᷑ deꝑdet de q̃ͣtitate ſicut pᵃ: ⁊ ꝑ ꝯñs ſeq̃t̃ ꝯ. ¶ Pro iſtis di admittẽdo caſũ ⁊ di ꝙ quocũqꝫ inſtãti dato erit infiᵗᵉ ptes ꝓportiõᵃˡᵉˢ diminute ad nõ q̃ͣtũ: qꝛ tunc vt pꝫ oĩs pars ꝓportiõᵃˡⁱˢ cõtinue eque᷑ deꝑdet de q̃ͣtitate ſicut pma: cum ergo infinite modice q̃ͣtitatis ſint infinite ptes illi⁹: ſeq̃t̃ ꝙ ante q̃õcũqꝫ inſtãs erũt infinite h̃ᵉ ptes diminute ad nõ q̃ͣtũ. Uel ſic arguit̃. dato aliquo inſtãti tũc erit certa pſ deꝑdita a pma pte ꝓportiõᵃˡⁱ: cũ ergo infinite ſint h̃ᵉ ptes ꝓportiõᵃˡᵉˢ: quaꝝ nulla erit tante q̃ͣtitatis ſicut illa que deꝑdet̃ añ illõ inſtãs de pᵃ pte ꝓportiõᵃˡⁱ: ⁊ q̃ͣtacũqꝫ aliq̃ pſ ꝓportiõᵃˡⁱˢ manebit ita equeᵘᵉ᷑ deꝑdet de q̃ͣtitate ſicut pᵃ vt argutũ eſt: ꝙ ad illud inſtãs infiᵗᵉ ptes ad nõ q̃ͣtũ erunt diminute: ⁊ ſolꝫ fiᵗᵉ remanebũt diminuẽde: ⁊ ſic pro nullo inſtãti imeᵈⁱᵃᵗᵉ poſt h̃ ifinite velociter diminuet̃ totũ: ⁊ ſic nõ ꝓcedit argᵐ. ¶ Contra h̃ vĩ 3ᵃ ꝯclõ ponẽs ꝙ ſiue equalia ſiue ineq̃lia eque᷑ ſiue inequeᵉ diminuant̃ equeᶜⁱᵗᵒ deueniũt ad nõ q̃ͣtũ. ¶ Huic di ꝙ h̃ eſt verũ vbi vnũq̃dq̃ illoꝝ ſolꝫ finite veloci⁹ diminuit̃: ⁊ ideo addit̃ in ꝯne 1ᵃ in ꝓportiõe finita: ſꝫ ſic nõ eſt in ꝓpoſito: iõ argᵐ nõ ꝓcedit.

¶ Quãtũcũqꝫ modicũ ſit aliq̃õ ſubm diuiſum in ptes ꝓportionales aliq̃ certa ꝓportiõe. Et ſit aᵈ quãtũcũqꝫ magnũ diuiſuꝫ in ptes ꝓportiõᵃˡᵉˢ ꝓportiõᵉ maiori. Aliqua erit pſ ꝓportiõᵃˡⁱˢ minoris maior parte ꝓportiõᵃˡⁱ correſpõdente maioris. 12ª ꝯ

Hoc arguit̃ ſic. Sit. a. nũc diuiſuꝫ ſic in h̃ᵉ partes ꝓportiõᵃˡᵉˢ ꝓportiõe minori que ꝓportiõ ſit. c. quãtũcũqꝫ modice q̃ͣtitatis volueris. ⁊ ſit. b. quãtũcũqꝫ magnum volueris diuiſuꝫ in ptes ꝓportiõᵃˡᵉˢ ꝓportiõe maiori q̃ꝫ eſt. c. que proportio ſit. d. ita ꝙ pᵃ pars ꝓportiõᵃˡⁱˢ. b. ſe h̃eat ad ſcdaꝫ in. d. ꝓportione: ⁊ ſcda ad 3ᵃᵐ in eadeꝫ ꝓportiõe ⁊ ſic in infiᵐ: ⁊ ſe h̃eat pma pars ꝓportiõᵃˡⁱˢ. a. in. c. ꝓportiõe ad zᵃᵐ ⁊ zᵃ ad 3ᵃᵐ in eadem ꝓportiõe ⁊ ſic deinceps. Et arguit̃ ꝙ aliq̃ pars ꝓportiõᵃˡⁱˢ. a. eſt maior pte ꝓportiõᵃˡⁱ. b. correſpõdẽte. Diuidat̃. n. hora in ptes ꝓportiõᵃˡᵉˢ ꝓportiõᵉ dupla: ita ꝙ minores ſint terminate ad h̃ inſtãs: ⁊ creſcat aliq̃d a nõ gradu q̃ͣtitatis: ⁊ acq̃rat in oĩ pte ꝓportiõᵃˡⁱ iſtius hore vnã partẽ ꝓportiõᵃˡᵉᵐ illius. a. ſm illam diuiſionẽ. ſ. in pma parte ꝓportiõali illius hore acq̃rat pmã partẽ ꝓportiõᵃˡᵉᵐ illius. a. ⁊ in ſcda ſcdaꝫ ⁊ ſic deinceps: ⁊ acq̃rat vnũ aliud in oĩ pte ꝓportionali ꝓportiõᵃˡᵉᵐ partẽ. b. correſpõdentẽ parti. a. acq̃ſite in eadeꝫ pte tp̃is: ⁊ tunc ſic arguit̃. illa duo a nõ q̃ͣto incipiũt creſcere: ⁊ id q̃õ acq̃rit ptẽ. a. tardi⁹ ꝓportionabil'r maiorabit̃ q̃ꝫ illud q̃õ acq̃rit partẽ. b. qꝛ id q̃õ acq̃rit partẽ. a. augebit̃ in omni pte ꝓportionali illius tp̃is per. c. ꝓportionẽ ⁊ aliud per. d. ꝓportionẽ vt notũ eſt ex caſu. ꝙ per q̃ntã ⁊ ſeptã ꝯneꝫ id q̃õ acq̃ret q̃ͣtitatẽ. a. per magnũ tp̃s erit alio mai⁹: ⁊ ſic veloci⁹ per magnũ tp̃s acq̃

fit id de q̄d'^ic q̄ aliud: ꝛ in oī pte ppor^li alī^9 tpis acgrenẽ
ptes ppor^lcs corridentes.a.ḡ multe ptes ppor^lm.a.ſut ma
iores ptib^9 pportionalib^9 corrīdentib^9.b.ꝙ fuit pbādū.
Scd'a p/batio ɔclu/ſionis val/de ſubtilis ❡ Ad idez ſic ar^r. Signet^r vnū mobile.ſ.c. qd in p^a parte
ppor^li.a.ſufficiat moueri in.c.ppor^ne velocius pceiſe q̄ͣ
in ſcda: ꝛ in.c.pportione velocius in ſecunda q̄ͣ in tertia ꝛ
ſic in infi^m: ꝛ ſufficiat id mobile mouer equeue^r in oī pte
ppor^li.b.ſm ſuā diuiſionē ſicut in pte ppor^li corrīdēte.a.
ꝛ arg^r ſic. In oib^9 ptib^9 pportiōabilib^9 corrīdētib^9.a.b.c.
equeue^r ſufficit mouere ꝛ ſufficit ptrāſire.b.mediāte mo/
tu ſuo ꝛ nō ſufficit ptrāſire.a.ḡ aliq̄ pars ppor^lm.a.eſt ma/
ior pte corrīdente.b.ɔña ſic arguit^r. Si oīs pars pportio/
nalis.a.ſit minor pte corrīdente in.b.maiorēt ad eq̄litatē
ptis corrīdentis:ꝛ ſeqt^r ꝙ ſi nūc ſufficiet ptrāſire.a.a mul/
to fortiori nūc illud ſufficit pertrāſire.a.qꝛ quelʒ illoꝝ ptiū
eſt minor q̄ͣ tunc eſſet:ḡ ex oppoſito ſeqt^r opp^m.ḡ ɔñria eſt
bona.vel ſic arguit^r. Si quelʒ pars ppor^lm.b.ſit maior pte
corrīdente.a.ꝛ in oib^9 bꝫ partib^9 corrīdentib^9 erit mot^9
eq̄lis:ḡ ad quālʒ ptis ppor^lm.b.pertrāſitionē maius tp̄s
regrit^r q̄ͣ ad pertrāſitionē ptis corrīdētis.a.ḡ ſi totum.b.
ſufficiet ptrāſire in tpe finito ſiīr ꝛ.a.ḡ ɔña que eſt ſcd'a eſt
bona.ꝛ añs arguit^r.ſ.ꝙ.c.nō ſufficiet pertrāſire.a.mediā/
tib^9 illis motib^9: qꝛ pma pars ppor^lis.a.eſt in.c.pportiōe
maior z^a: ꝛ in.c.ppor^ne erit mot^9 velocior in p^a pte ppor^li
q̄ͣ in z^a:ḡ tantū tp̄s regrit^r ad pertrāſitionē pme ptis ſicut
ſcde ꝛ ſic in infi^m:ḡ in nullo tpe finito ſufficit.c.pertrāſire
totū.a.ꝛ.c.ſufficit ptranſire.b.in tpe finito.qd ſic arguit^r.in
c.ppor^ne ſufficit.c.veloci^9 moueri in p^a parte ppor^li q̄ͣ in
z^a:ꝛ maior eſt pportio p^e ptis ppor^lis ad z^am q̄ͣ.c.ppor^o:
ḡ in minori tpe ſufficit pertrāſire ſcdaʒ ptē ppor^lem q̄ͣ p^a.
ɔñria tenet: ſi.n.z^a pars ppor^lis eſſet in.c.pportiōe minor
p^a:nūc in eq̄li tpe pciſe ſufficeret pertrāſire ſcdaʒ ſicut pmā.
ſed nūc eſt z^a pars minor q̄ͣ tunc eſſet:ḡ nūc in minori tpe
ſufficit pertrāſire ſcdaʒ ptē ppor^lem.b.q̄ͣ pmā:ꝛ in eadem
ppor^ne in minori tpe tertiā q̄ͣ ſcdaʒ ꝛ ſic in infi^m:ḡ totū.b.
in tpe finito ſufficiet pertrāſire.ɔña tenet per hoc ꝙ ſi ſint
infinita ppor^lia eq̄li pportiōe maioris ineq̄litatis totū ex
his cōpoſitū fiet ſoluʒ finitū:vt manifeſte pʒ cuilʒ intuēti
ppor^lia eq̄li pportione maioris ineq̄litatis ſiue nāʒ ppor
Contra^m vt ſic ɔcluſio 3ª. tionis. ❡ Ex hoc ſeqt^r ꝙ ipoſſe eſt per ɔtinuū crementum
infinitoꝝ a non q̄ͣto aliquā ppor^nem ſucceſſiue acgri inter
illa ita ꝙ ſemꝑ ſit tāta ppor^o pmi ad z^m ſicut ſcdi ad 3^m ꝛ
ſic in infi^m:ꝛ ꝙ pportio inter illa ɔtinue maiorēt^r: qꝛ dato
fine ſeqt^r ꝙ tūc erūt infinita ppor^lia aliq̄ pportiōe.ſ.ma/
iori q̄ͣ ante finē:ḡ per pximā ɔneʒ añ fine erit aliqd iſtoꝝ
maius q̄ͣ in fine:ꝛ per ɔñs nō ɔtinue maiorabit^r i^a ppor^o
per maiorationē iſtoꝝ:qꝛ infinita illoꝝ nectio minorabūt^r
3ᵃ ɔnes vt argutū eſt. ❡ Cōtra illas ɔnes arguit^r ſic. Signent^r infi
nita pportionabilia aliq̄ certa pportiōe ꝛ minorēt^r pmūʒ
ad nō q̄ͣtū in iſta hora ꝛ varient^r oīa a^o: ita ꝙ pportiones
iter i^a minorent^r ad nō gradum in hora i^a manēte iter oīa
pxima eadeʒ ppor^ne ſic ꝙ iſti termini cōtinue ſint ppor/
tionales.caſus pʒ:qꝛ pñt variari ſic:ꝙ pro oī inſtāti inter
illa ſit quecūqʒ ppor^o poſſi^s. Quo poſito arguit^r ſic.nūc eſt
aliq̄ pportio inter i^a ifinita que diminuent^r ad nō gradūʒ
in eodem tpe in quo p^m minorabit^r ad nō q̄ͣtū:qd nō eſſet
niſi qðlʒ illoꝝ diminuat^r in eodeʒ tpe ad nō q̄ͣtū: qꝛ aliter
inter pmā ꝛ ſcdaʒ nō maneret ɔtinue ppor^o maioris ineq̄
litatis:ḡ per minorationē illoꝝ ad nō q̄ͣtuʒ erit ſucceſſiue
deꝑditio pportiōis inter i^a infinita manētia ſemꝑ ppor/
tionabilia ɔtinue:ḡ eʒ per maiorationeʒ illoꝝ a nō quāto
poſſet eſſe hꝫ acgſitio pportionis:ḡ hꝫ ɔcl'ones ſunt falſe.
Solo ❡ Pro iſtis dī cōcedendo ɔnes vt arg^m ſatis pbāt. Et ad
argu^m in oppo^m dī ꝙ multa iſtoꝝ per magnū tp̄s maiora/
bunt^r: ꝛ iſta eadē ɔtinue poſt minorabunt^r: ſʒ nectio ꝑ totū

illud tp̄s ifinita maiorabunt^r: ꝛ pro oī inſtāti citra finē ſolū
finita miorabunt^r: ꝛ ſic ſi aliq̄ a nō q̄ͣto creſcāt oīa iſta inci
perēt maiorari.ſed pro oī inſtāti poſt hoc ifinita illoꝝ mi/
norabunt^r ꝛ ſoluʒ fi^ta maiorabūt^r: ꝛ ſic nō erit i^a ſucceſſiua
acgſitio ppor^nis ꝑ coꝝ maiora^nem: ſʒ ꝑ aliq^s maiorationē ꝛ ꝑ
aliquoꝝ miora^nem: plus tñ erit miorātio mioris q̄ͣ maioris.
Idē tñ declarat^r ſic.ſit gr̄a arg^ti ppor^o q̄drupla inter i^a. ꝛ ar^r
ꝙ ſi p^m minorabit^r: ita tñ ꝙ pportio tota minorēt^r ad ſub/
dupluʒ erit dare certū ꝙ maiorabit^r ꝛ oīa minora iſto tūc
etiā maiorabunt^r. Si enim pmū minorabit^r minus ppor^e
q̄ͣ ad ſubdupluʒ: ꝛ nūc eſt ppor^o q̄drupla iter p^m ꝛ z^m ꝛ ſic
erit dupla:ḡ tūc erit maioratio ſcdi ꝛ oiuʒ alioꝝ vt notū ē.
Si.n.ppor^o ſcdi ad oīa a^o miorabit^r ꝛ z^m maiorabit^r reg/
rit^r ꝙ oīa a^o maiorent^r. Si ḡ p^m miorabit^r ad ſubq̄dru^m: ꝛ
nūc eſt ppor^o q̄drupla iter p^m ꝛ z^m: ꝛ tūc erit dupla:ḡ tunc
z^m erit in du^o min^9 q̄ͣ nūc eſt:vel nō erit ita modicū tūc ſicut
eſt i^a ſubduplū. Si z^m miorabit^r ad ſubdu^m pciſe:ꝛ nūc eſt
iter z^m ꝛ p^m ppor^o q̄drupla ꝛ fiet dupla:ḡ 3^m nō miorabit^r.
ɔña ſatis ſe^r: ꝛ ſic ſe^r ꝙ qðlʒ min^9 illo 3° maiorabit^r. Si fie/
ret z^m nō in du^o min^9 ꝙ iā eſt, ſeqt^r ꝙ 3^m ꝛ qðcūqʒ min^9 3°
maiorabit^r: vt pdictū ē de p^o ꝛ z^o. Si ḡ p^m miorabit^r ad ſub/
octuplū, ſeqt^r ꝙ z^m miorabit^r ad ſubq̄dru^m, 3^m ad ſubdu^m:
ꝛ ꝑ ɔñs 4^m nō miorabit^r: ꝛ ſi ſic qðlʒ min^9 eo.ſ.4° maiora/
bit^r.oēs ɔ^e intermedie patēt maiētī: ꝛ ſic ꝑ quācūqʒ ppor^nē
magnā miorabit^r p^m: ſeqt^r ꝙ erit deuenire ad aliqd certūʒ
qd maiorabit^r: ꝛ ſic qðlʒ min^9 eo tūc maiorabit^r. ❡ Naʒ ſi Regla p/portionū.
ſint aliq̄ duo ppor^lia aliq̄ ppor^ne ꝛ ppor^o iter i^a miorat^r ꝑ
vtriuſqʒ minoratiōeʒ, ppor^o deꝑdita a maiori.i.ꝑ quā fiet
min^9 erit maior ppor^ne ꝑ quā min^9 miorabit^r ꝑ tantā pro/
portionē q̄ͣta eſt ppor^o iter mai^9 ꝛ min^9 deꝑdēda: vt ſi ſit
ppor^o iter mai^9 ꝛ min^9 deꝑdenda pciſe dupla ꝑ minora/
tionē vtriuſqʒ, ppor^o ꝑ quā miorabit^r mai^9 excedit ppor/
tionē ꝑ quā miorabit^r min^9 ꝑ ppor^nem iſtā: vt ſi mai^9 mino/
ret^r ad ſubduplum ꝛ minus minorabit^r ad ſexqalterū: ꝛ ſi
mai^9 ad ſubq̄dru^m minus ad ſubduplum: ꝛ ſic deſcēden/
do ꝑ oīa. ❡ Hec regla declarat^r gnālr. Sit eniʒ.a.mai^9 ꝛ.b. a.ſe minorēt ad.2. eſt diminuēdo.
min^9: ꝛ ſit.c.ppor^o iter illa q̄ propor^o diminuet^r ꝑ minora/
tionē a.b.deꝑdendo.d.ppor^nem. ꝛ ſit.e.tota ppor^o per quā
fiet.a.min^9 ꝛ ſit.f.aliqd a^o ad qd.a.nūc ſe hēbit in.c.ppor^ne b 4.ad.2.
qd.f.nūc ſit eq̄le.b. Et arg^r ꝙ in fine ppor^o.a.ad.f.excedet c.pportio inter iſta duplaſexqaltera.
ppor^nem.a.ad.b.per.d.ppor^nem vt pʒ ꝑ caſum: qꝛ.c.ppor^o
excedit ppor^nem q̄ in fine erit iter.a.ꝛ.b.per.d. pportionē
vt pōit^r:ḡ.b.tūc ſe hēbit ad.f. in.d.ppor^ne. ɔña pʒ ꝑ hoc ꝙ ſi d.pportio deꝑdēda iter ipſa dupla.
ſint 3ª ppor^lia ppor^ne maioris ieq̄litatꝫ ppor^o pmi ad 3^m ex/
cedit ppor^nem pmi ad z^m ꝑ ppor^nem z^i ad 3^m: eo ꝙ i^a ppor^o
ex iſtis duab^9 intermedijs cōponit^r. ſʒ.b.ꝛ.f.nūc ſunt eq̄lia:
ḡ ppor^o per quā minorabit^r.f.excedit pportiōeʒ per quā e.ꝑportio que deꝑdit ab.a. quadrupla.
miorabit^r.b.ꝑ.d.pportiōeʒ: qꝛ ppor^o q̄ͣtitatis illoꝝ in pn^o
ad q̄ͣtitatē.f.in fine cōponit^r ex proportiōe illius q̄ͣtitatis
ad.b.ꝛ pportiōe.b.ad.f.q̄ eſt.d.ppor^o: ſʒ.f.minorabit^r ꝑ.e. f.4.diminuat ad 1.
pportiōeʒ ꝑ quā.a.miorabit^r: qꝛ alr̄ nō maneret eadeʒ p/
portio iter.a.ꝛ.f.que nūc eſt iter i^a:ḡ.c.ppor^o ꝑ quā miora/
bit^r.a.excedet pportioneʒ ꝑ quā miorabit^r.b.per.d.ppor/ Regle ꝓportionū.
tionē: ꝛ i^a eſt ppor^o deꝑdita iter.a.ꝛ.b.ḡ ſeqt^r ꝙ fuit pbā/
dūʒ. Si ḡ tūc iter i^a infi^ta ſit ppor^o aliq̄ ꝛ p^m mioret^r ꝛ z^m:
ꝛ ſic deinceps de alijs que debēt minorari: tūc data ppor/
tione per quā p^m miorabit^r añ inſtās certū datū: ita ꝙ pro/
portio.a.ſ.pmi ad.b.z^m miorabit^r per.d.pportionē: ꝛ ſeqt^r
per ſargumētū ꝙ ppor^o ꝑ quā p^m fit min^9 excedit pportionē
per quā z^m miorabit^r per.d.pportionē: ꝛ i^a per quā z^m fiet
min^9 excedit pportionē per quā 3^m fiet min^9 per.d.ppor/
tionē: ꝛ ſic diſcurrēdo per oīa q̄ miorabunt^r. cū ḡ pportio
per quam pmūʒ minorabit^r cōtineat ſolum finitas.d.pro/
portiones: ſeqt^r ꝙ eſt deuenire ad vnū certū qd nō deꝑdet
maioreʒ ppor^nem q̄ͣ ſit.d.pportio: ꝛ per ɔñs id qd eſt ſibi

pᵢmū nō minorabiť:ſed qđlʒ eo min⁹ maiorabiť:aľr.n. nō minoraret ppor^e inter 1^a.ɔ̃ña pʒ:ſi eniʒ ɔtinēt ſo^m duas.d. ppor^{nes}:ſi 1ª ppor^e ꝑ quā minorabiť p^m excedet ppor^{nem} deꝑditā a 2ª quā.ſ.2^m minora^r per vnū.d.ꝛ 3^m ꝑ 2^a.d.ſeq̄ꝰ ꝙ 1ª ppor^e ꝑ quā minora^r p^m excedet ppor^{es} ꝑ quā minorabiť 2^m per.d.ppor^{nem}:ḡ 3^m nō minora^r.ɔ̃ña eſt ſatis nō. ḡ id 2^m ſoluʒ deꝑdet vnā.d.ppor^{nes}:ꝛ ſi ſic i^a 3^m nullaʒ pportionē deꝑdet nec aliqđ eo minus:ꝛ ſic arguēdum eſt. quotcunqʒ.d.ppor^{nes} cōtineat ppor^e per quā minora^r p^m. qđ.ſ.taľe ſigātū ꝑ numerū illaʒ.d.ppor^{num} nō deꝑdet maiorē pportionē ꝙ̄ eſt.d.vt ſi ɔtineat centū id centeſimū nō deꝑdet niſi vnā ppor^{nem}.d.ad max^m.Et ſi ɔtineat mille id milleſimū nō minora^r per maiorem pportionē ꝙ̄ pro.d.ꝛ ſic eſt verū:quotcūqʒ.d.ppor^{nes} cōtineat adeq̄te tota por^e ꝑ quā fiet p^m min⁹.ꝛ h̄ ſi.d.ſit ꝑs aliquota.Si vo.d.pportio nō ſit ꝑs aliquota re^a toti⁹ ppor^{nis} deꝑdende ꝑ quaʒ.ſ. p^m minorabiť:tūc aliquotiēs ɔtinet.d.ꝛ aliquā pportionē vltra que nō eſt ꝑs.d.Signet ergo numer⁹ quotiēs iſta pportio.d.pportionē ɔtinet:ꝛ ſigneť vnū iſtoꝝ qđ ſigneť ꝑ illum numerū:ꝛ pᵢmū illoꝝ ꝑter vnum nec̄io maiora^r: vt ſi pportio per quā p^m minora^r ɔtineat ſolum tres.d.pportiones ꝛ vnā aliā ppor^{nem} vltra minorē ꝙ̄ eſt.d.vt poſita ſemꝑ ɔſili ppor^{ne} inter 1^a īfinita ſicut inter p^m ꝛ 2^m:illđ vltimū nec̄io maiorabiť.Sit eniʒ.c.1^a ppor^e quā continet vltra.d.que.ſ.nō eſt ꝑs aliquota.d.ꝛ cū tūc p^m deꝑdet vł minora^r per tres.d.ppor^{nes}:ꝛ per.c.ꝛ ppor^e inter p^m ꝛ 2^m minora^r ſolum per.d.ppor^{nes}.ḡ per ꝑargūa 2^m deperdet vel minorabiť per duas.d.pportiōēs:ꝛ per.c.ꝛ ſi ſic tunc 3^a minorabiť per vnā.d.pportionē:ꝛ per.c.ꝛ per ɔ̃ñs 4^m minorabiť ſolus ꝑ.c.pportionē:ꝛ ppor^e inter 4^m ꝛ 5^m minorabiť per.d.ppor^{nem} que eſt maior ꝙ̄.c.ḡ id 5^m maiorabiť.℄ Oēs iſte ɔ̃ intermedie tenēt per id mediū ꝑnotatum:vbi pportio maioris ineq̄litatis minorať ꝑ vtriuſqʒ termini miorationē ppor^e per quā minorabiť p^m excedit pportionē ⁊c̄.Et ſi ſicſi pportio qua fiet p^m minus contineret duas ppor^{nes}:ꝛ vnā ei⁹ ꝑtē vltra 4^m deberet maiorari:ꝛ ſic quotiēſcūqʒ iſtā.d.ppor^{nes} ɔtineat.pʒ ḡ ſolo ar^m. Si eniʒ.a.nō ꝙ̄to incipiās aliq̄ creſcere:ita ꝙ inter 1^a ɔti^e manētia pportionalia acgrať ſucceſſiue aliq̄ pportio pro quocūqʒ inſtāti dato minorabunť infinita iſtoꝝ ꝛ ſolū finita maiorabunť:ꝛ ſic nō ꝓcedit arg^m.℄ Nota ꝙ cōcluſiones 8^a 9^a 10^a 14^a ſūt ſimpl'r vere penes qđcūqʒ velocitas augmētationis attendať ⁊c̄.

2^a pō **Alia poſitio** ponit ꝙ velocitas augmētatiōis attēdiť penes ꝙ̄titatē acq̄ſitā nō habēdo reſpectū quouiſmō ad prehabitā:ita ꝙ ſiue eq̄lia ſiue inequalia eque^r acgrāt de ꝙ̄titate 1ª eque^r augmētabūť.

ɔ pōneʒ ℄ Contra quā pōneʒ ar^r:q2 tūc ſequereť ꝙ.a.ꝛ.b.ſint duo eq̄lia que ɔti^e eque^r augmētabunť:ꝛ tñ vnū ɔtinue erit min⁹ a^o.Sint eniʒ.a.ꝛ.b.eq̄lia vtrūqʒ gr̄a argu^{ti} pedale:ꝛ acgrat vtrūqʒ per maiorationē vni⁹ medietatis pedale:ꝛ deꝑdať ꝙ̄titas in a^o me^{te}.b.tardius tñ ꝙ̄ quātitas acquirať:ꝛ non fiat deꝑditio ꝙ̄ti^{tis} in.a.ꝛ ſeq̄ ꝙ.a.ɔti^e eque^r ꝑciſe acgrit de ꝙ̄titate ſicut.b.ꝛ.a.ɔtinue erit maius.b.eo ꝙ.b.aliquā ꝙ̄ti^{tem} deꝑdet ꝛ nō.a.ḡ ꝑ pōneʒ eq̄ue^r augmētabunť:ꝛ tñ.a.ɔti^e erit maius.b.ḡ ſeq̄ ɔclo.Si vo dicať ꝙ poſitio tenet vbi nō eſt deꝑditio ꝙ̄titatis:tūc inſufficienter ponit:eo qđ dicit ꝙ nō erit reſpect⁹ h̄ndus ad ꝙ̄titateʒ

2° prehabitā.℄ Itē ex hac pōne ſeq̄ ꝙ aliqđ ſimul augmētabiť ꝛ diminueť.Sit eniʒ.a.cu⁹ vna medietas maioreť ꝛ alia eque^r minoreť:ꝛ ſequiť ꝙ aliqđ ſil' augmētabiť ꝛ diminueť:q2 exquo nō erit r^{us} ad ꝙ̄titatē prehabitā ꝛ erit acq̄ſitio ꝙ̄titatis eq̄lis deꝑditioni:ḡ augmētabiť ꝛ per idē

3° diminueť.℄ Itē ex hac pōne cōtra deduciť ꝙ ſi digitus hoīs augmentareť ꝙ tot⁹ hō eque^r augereť cū 1° digito

qđ eſt ɔ modū loquēdi.℄ Itē ex hac pōne ſeq̄ ꝙ nihil pōt vniſor^r augeri quo ad ſubm:ita ꝙ quelʒ ꝑs eque^r augeať cū toto vel cū a^o ꝑte:q2 tūc quelʒ ꝑs eq̄leʒ ꝙ̄^{tes} acgriſ cū toto:ꝛ ſic ſubito fieret totū inf^m.ɔ̃ñs vl̄ tñ falſuʒ:q2 aliqđ pōt vniſor^r alterari quo ad ſubm ꝛ aliqđ vniſor^r moueri localr:ḡ per ideʒ aliqđ pōt vniſor^r augeri.

Pro iſta mā pōt corrigi pō:ꝛ dī ꝙ velocitas augmentatiōis attēdiť penes acq̄ſitionē exceſſus ſupra ꝙ̄ti^{tem} prehabitā. Uel ſub alijs vbis velocitas augmētatiōis attēdiť penes receſſuʒ a termino a quo incipit 1° res maiorari v̄ſus terminū ad quē ſupa. Et velocitas diminutiōis attēdiť penes receſſuʒ a termino ſub quo eſt 1^a ꝙ̄titas v̄ſus terminū ad quē. Et h̄ pō tenet gn̄aliter ſiue ſit in alia ꝑte diminutio ſiue nō:vt ſi.a.nec eſſet aliā quātitē qđ ſm vnā ei⁹ me^{tes} acgrat pedale:ꝛ ſm aliā deꝑdat ſemipedale:ꝛ eſſet vnū aliud ſiue ſibi eq̄le ſiue ineq̄le qđ acgret ſemipedale nihil deꝑdendo 1^m 2^o eq̄ue^r augmētarent.ꝛ ſi in aliquo ſit eq̄lis deꝑditio ꝙ̄titatis ſicut acq^a totum nec augmnetabitur nec diminueť ſicut ſi medietas alic⁹ intenſi eque^r intendereť ſicut alia remittiť totum: nec intēdiť nec remittiť ſed ſicut illud altereť:ita iſtud moueret ad ꝙ̄titatē:ipoſē tñ eſt aliquid moueri motu ad ꝙ̄titatē vbi n^a ei⁹ ꝑs augmētareť vel diminuať.℄ Cōtra hāc pōneʒ ar^r per 2° vlt^a arg^m ɔ pōneʒ pᵢmā ad que dō cōcedendo ɔ̃ñes ad quas deduciť vtū p^m nō eſt icōueniēs. Uulgus tñ multotiēs capit illuʒ terminū eque^r pro iſto termino eque ppor^r:ꝛ ſic negat illđ ppon^m. Ad aliud ar^m. etiā nō eſt incōueniens accipiēdo vniſor^r augeri ſic ꝙ oīs ꝑs eque^r cuʒ a^o augereť. ſed bñ eſt poſē ꝙ oīs ꝑs eq̄lis acgrat eq̄l'r de ꝙ̄titate cū ꝑte ſibi eq̄li.ſed hoc nō eſt vni⁹ augeri:imo vbicūqʒ aliqđ augebiť per totū infinitū tarde nec̄io augebiť aliq̄ eius ꝑs ſicut īfinite modica eſt aliq̄ ꝑs ipſius.Et ad arg^m in opp^m de alteratiōe nō cōcludit:q2 in intēſione eque icenſa pōt eē ꝑs cuʒ toto cui⁹ eſt ꝑs:ꝛ eq̄ue^r acgrere de intēſiōe ſicut aliq̄ ei⁹ ꝑs.Sil'r.n.in motu locali velocitas mot⁹ attēdiť penes punctū velociſſime motū ſi aliqs ſit talis ꝛ equeueloꝝ pōt eē mot⁹ puncti velociſſime moti cū motu tot⁹ ꝛ eq̄leʒ lineā pōt deſcribē:ſʒ in augmētatiōe ipoſē eſt ꝑtē aliquā eē toti⁹ finiti qn̄ totuʒ ſit illa ꝑte maius:ꝛ ſic augmētatio ſoluʒ ɔ̃ſiſtit in extēſione ꝛ ar^m nō ꝓcedit:ſi eniʒ totū ꝛ ꝑs eque^r augereť a nō ꝙ̄to/nulla pōt poni rō q̄re totū ꝛ ꝑs nō ſemꝑ eſſent eq̄lia ſicut ſi totum ꝛ pars a nō gradu eque^r intēderenť ſemꝑ manerēt eq̄ intenſa:ꝛ ſic reputo illā pōneʒ inter oēs alias fore verā.

In iſta mā pōt dubitari nūqđ ſi a^a per totum diminuať ſequeť ipſiuʒ ſubito fieri nō ꝙ̄tū.ꝛ arg^r ꝙ ſic:q2 exquo per totū incipit eſſe diminutio cuiuſlʒ ꝑtis illi⁹ ꝙ̄titatis icipit aliq̄ pars deꝑdi:ḡ ſubito tota deꝑdeť. Probať ɔ̃ña:q2 ſi aliq̄ pars illi⁹ remanebit.Cōtra.illi⁹ deperdiť aliq̄ pars:ḡ nō tota i^a remanebit.℄ In opp^m arg^r ſic.Dato iſto ſeq̄ ꝙ nihil per tp̄s pōt diminui.ɔ̃ñs falſuʒ: ergo ⁊c̄.℄ Pro quo dī negādo 1^{am} dubitationē. ꝛ ad arg^m negať aſſumptū:q2 imaginādū eſt de ꝙ̄titate que in ſe cōtinet ꝑtes:ita ꝙ ſi cuiuſlibet ꝑtis aliqua pars deperdereť nulla remaneret vt ꝓbat arg^m.ſed bene ſequiť:exquo per totū incipit diminui ꝙ cuiuſlʒ ꝑtis ꝙ̄titatiue ſubiecte iſti quātitati incipit aliqua pars ꝙ̄titatis deperdi que illi ꝑti ineſt:exquo tñ non ſequiť ꝙ ſubito perueniet aliqua talis mā ad nō ꝙ̄tuʒ ſicut in exēplo:ſi foret vnū cal'm ſummuʒ ꝛ vndiqʒ deperdereť caliditatis medietas:ita ꝙ remaneret ad oēm punctū caliditas in gradu medio cuiuſlʒ ꝑtis iſtius calidi/deperdereť aliq̄ caliditas que iſti parti ineſt: nō tñ cuiuſlʒ ꝑtis caliditatis deperdereť aliq̄ pars:q2 caliditatis in fine remanētis nulla pars deperdeť:ꝛ ſic dī in ꝓpoſito:ꝛ ſic nō ꝓcedit argumentum.

Corrigiť pō a pōt[-] vltā 3^a.

ɔ 3^{am}

Dubiuʒ

Solo

Du^m 2^m p^{2} ꝯclo Regula proportionum. **Qualiter** aliqḋ ſubm eſt alio maius ꝯtingit dubitare. Arguit tñ ꝙ.a.eſt ꝑciſe duplū ad.b.et tñ.a.eſt maius ꝙ̄ duplū. Et ꝓ capiat̄ 1ª ſup^o. Si aliqua ad alia in eadē ꝓpor^{ne} cōparent̄ ſicut vnū ſe hz ad ſui cōparez: ita aggregatū ex oībus cōparatis ſe hz ad oia ſil' ſumpta ad que cōparatio fit. H pz in ꝓpor^{ib3} 7 5° Euclidis. Sit ḡ.b.pedale ſm oēs dimēſiones: 7.a.bipedale ſm oēs dimenſiones: tūc ꝙ.a.ſit ꝑciſe duplū ad.b.arg^r ſic. Lōgitudo.a.eſt dupla ad lōgitudinē.b.7 latitudo.a.eſt dupla ad latitudinē.b.7 ꝓfunditas.a.eſt dupla ad ꝓfunditatē.b.ḡ cum tota q̄titas.a.ſit cōpoſita ex lōgitudine latitudine 7 ꝓfunditate: ſeq̄r ꝙ.a.eſt dupla ad q̄titatē.b.ſeq̄t ḡ ꝙ.a.eſt ꝑciſe duplū ad.b.q2 ſicut lōgitudo.a.ſe hz ad lōgitudinē.b.ita iuxta ꝓnē aggregatū ex lōgitudine latitudine 7 ꝓfunditate.a.eſt duplū ad aggregatū ex lōgitudine latitudine 7 ꝓfunditate.b.7 per ꝯñs.a.eſt ꝑciſe duplū ad.b. Et ꝙ.a.ſit plus ꝙ̄ duplū ad.b.arg^r ſic. Sit.c.vnū aliud ꝑciſe in duplo lōgius b.7 eq̄lis latitudinis 7 ꝓfunditatis cū eodē.b.tūc.c.eſt duplū ad.b.q2 vtraq3 medietas.c.eſt eque lōga 7 eque lata 7 eque ꝓfunda cū toto.b.vt pz: 7 totū.c.eſt duplū ad ei^o medietatē.ḡ totū.c.eſt duplū ad.b.7.a.eſt maius.c.eo ꝙ.a.eſt eque lōgū cū.c.7 in duplo latius 7 in duplo ꝓfundi^o.c.ḡ ſequit̄ ꝙ.a.eſt plus ꝙ̄ duplū ad.b.imo.a.eſt octuplū ad.b.q2 ſit vnū eque lōgū cū.a.7 in duplo lati^o.c.7 eque ꝓfūdū cū.c.ꝙ̄ ſit.d.tūc.d.eſt duplū ad.c.q2 vtraq3 medietas.d.diuidēdo ipm ſm latitudinē eſt equalis.c.q2 eſt eque lōga 7 eque lata 7 eque ꝓfunda: tūc vt ꝯſtat 7 totū.d.eſt duplum ad ei^o medie^{tē}.ḡ totū.d.eſt duplū ad.c. Cōſilr arg^r ꝙ.a.eſt duplū ad.d.7 ſeq̄tur.a.eſt duplū ad.d.7.d.duplū ad.c.7.c.
2° duplū ad.b.ḡ.a.eſt octuplū ad.b.vt pz in numeris.ḡ ſeq̄t ꝯclo. ❡ A.maiorabit̄ veloci^o.b.7 tñ eque ꝑciſe velo^r cū.b. Sint eīz.a.7.b.due ſupficies eq̄les vtraq3 ḡfa ar^{ti} pedalis tā ſm lōgitudinē ꝙ̄ ſm latitudinē: 7 maioret̄.a.ad ſuū duplū tā ſm lōgitudinē ꝙ̄ ſm latitudinē: 7 maioret̄.b.ſolū ſm lōgitudinē: ita tñ ꝙ.b.in duplo veloci^o acq̄rat de lōgitudine ꝙ̄.a.tūc ꝙ ꝑciſe eq̄uelo^r maiorabunt̄ ꝓz: q2 maioratio lōgitudis.a.tātū faciet ad maioratiōez.a.ſicut acq̄ſitio latitudis: eo ꝙ nūc ſunt eq̄les 7 eq̄uelo^r vnifor^r maiorabunt: 7 in duplo plus faciet acq̄ſitio lōgitudis.b.ad maiorationē.b.ꝙ̄ lōgitudis.a.ad maioratiōez.a.eo ꝙ ille due nūc ſunt eq̄les: 7 in duplo veloci^o ꝯti^r maiorabit̄ lōgitudo.b.ꝙ̄ lōgitudo.a.ḡ acq̄ſitio lōgitudis.b.tātū faciet ad ei^o maiorationez ſicut acq̄ſitio lōgitudis 7 latitudis.a.faciet ad ei^o maioratiōez.7 ſi ſic ſeq̄t ꝙ.a.eq̄uelo^r maiorabit̄ cū.b. Et ꝙ.a.veloci^o maiorabit̄ ꝙ̄.b.ar^r ſic.a.nūc eſt eq̄le.b.7 in fine erit mai^o.b.ḡ 7c. Añs pz.ſ.maior.7 mior ar^r ſic. In fine erit.a.in q̄druplo mai^o ꝙ̄ nūc eſt: q2 tūc q̄libet pars 4^a.a.erit tāta ſicut nūc eſt totū.a.q2 eque lōga eque lata cū toto.a.in pn^o: vt pz.ſi p^o diuidat̄ in medie^{tes} ſm lōgitu^{ne3} 7 poſt ſm lati^{ne3}: tūc lōgitudo erit bipedalis 7 ēt latitudo.ḡ ſeq̄t ꝙ.a.tūc erit in q̄druplo mai^o ꝙ̄ nūc eſt: 7.b.ꝑciſe in triplo mai^o ꝙ̄ nūc eſt: eo ꝙ ſtāte latitudine maiorat̄ ad triplū: vt
3° ꝯſtat: ḡ tūc erit.a.mai^o.b.7 nūc eſt idē.a.eq̄le ip̄i.b.ḡ.a.veloci^o augmētabit̄ ꝙ̄.b.ḡ ſeq̄t ꝯclo. ❡ Si a nō gradu ſm vtrāq3 dimēſionē incipet ſupficies augeri: ifinitum tarde incipet augeri.qḋ ſic arg^r. Incipiat.a.creſcē a nō g^o tā etiā lōgitudis ꝙ̄ latitudis: 7.b.a certo g^o lōgitudis 7 a nō g^o latitudinis: tūc in ifinitū veloci^o incipit.b.augeri ꝙ̄.a.7.b.ſolū3 finite velo^r acq̄rit de lōgitudine 7 eq̄uelo^r de latitudine cū.a.ḡ in ifinitū tarde incipit.a.augeri.ꝯña pz.7 minor 7 maior ſic arguit̄. In ifinitū lōgi^o icipit.b.eē ꝙ̄.a.7 eque latū cum.a.ḡ in ifinitū maior incipit.b.ſupficies eē ꝙ̄.a.7 vtrūq3 a nō q̄nto icipit augeri loq̄ēdo de q̄titate ſupficiali: ḡ ifinit3 veloci^o incipit.b.maiorari ꝙ̄.a.ſeq̄t ḡ ꝙ.a.ifinitū tarde icipit augeri: 7 ſic de q̄cūq3 alio eſt arguēdū.

ḡ ſeq̄t ꝯclo. Et ꝙ ꝯclo ſit falſa arg^r ſic. Sit.a.aliquāta ſupficies que in aliq̄ tpe vnifor^r deꝑdat ad ſubduplū tā in lōgitudine ꝙ̄ in latitudine: 7 in tpe ſubquadruplo iterū ſm vtrāq3 dimēſionē diminuat̄ ad ſubduplū: 7 ſic in ifi^m: tūc in tpe dato diminuet̄ ad ſubq̄druplū: q2 in fine cuiuſlibet ꝑtis erit in duplo minus lōgū 7 in duplo min^o latū ꝙ̄ ſit in pn^o eiuſdē.ḡ in oī tali ꝑte diminuet̄ ad ſubq̄druplū.ḡ cū 2^m tps ſit in q̄druplo min^o p̄: ſeq̄t ꝙ in 2° tpe eq̄uelo^r diminuet̄ ſicut in p̄: 7 ſic deinceps.ḡ ſolū finite velo^r deſinet diminui. Incipiat ḡ in aliq̄ tpe ꝯſilr augeri ſicut nūc deſinit diminui: 7 ſeq̄t ꝙ tūc finite velociter 7 finite tarde incipit augeri: 7 tñ a nō g^o vtriuſq3 dimēſionis: vt argutū eſt de diminutione.7 ita certe velociter incipiet augeri a non g^o vtriuſq3 dimēſionis tā lōgitudis ꝙ̄ lati^{nis}.ḡ ꝯclo nō eſt vera.

Pro iſtis rñdet̄: 7 dī ad p^{m3} ꝯñez ipam negādo.vñ in caſu poſito.a.eſt plus ꝙ̄ duplū ad.b.q2.a.eſt octuplū ad.b.vt ꝓbat̄ ibi. Et ad arg^m negat̄ ꝯña qñ arg^r lōgitudo.a.eſt ꝑciſe dupla ad lōgi^{ne3}.b.7 latitudo dupla ad lati^{nem}.b.7 ꝓfunditas dupla ad ꝓfunditatē.ḡ tota q̄titas cōpoſita ex his eſt ꝑciſe dupla ad totū.b.q2 cū lōgitudine.a.ꝯiūgit̄ maior latitudo ꝙ̄ cū lōgitudine.b.7 eq̄lis lōgitudo cū maiori latitudine plus facit ad maiorationē cuiuſlibet ſubti ꝙ̄ cū minori.7 ideo lōgitudo.a.plus facit ad magni^{tem}.a.ꝙ̄ lōgitudo.b.ad quātitatē.b.7 ſic nō ſeq̄t ar^m: q2 añs eſt verū loq̄ēdo de duplicitate lōgitudis in ſe icluſiue 7 nō cōparādo eā ad latitudinē eiuſdē: que tñ ꝯiuncta plus facit illā facere ad toti^o maiorationē ꝙ̄ ſi nō ꝯiūgeret̄ 7c. ❡ Pro 2° negat̄ ꝯclo 7 admittat̄ caſus: 7 dī ꝙ velocius maiorabit̄.a.ꝙ̄.b.7 ꝯcedit̄ totū vſq3 ibi, cū dī acq̄ſitio lōgitudis.b.in duplo plus facit ad ei^o maiorationē ꝙ̄ acq̄ſitio lōgitudis.a.negat̄ H: 7 tūc qñ arguit̄ iſte lōgitudines ſunt eq̄les nūc 7 in duplo velocius ꝯti^r maiorabit̄ lōgitudo.b.ꝙ̄ lōgitudo.a.ḡ in duplo veloci^o faciet ꝯtinue. Negat̄ ꝯña: q2 acq̄ſitio lōgitudinis.a.ꝯti^e erit re^{ne} latitudinis maior in.a.ꝙ̄ acq̄ſitio longitudinis in.b.7 eq̄lis acq̄ſitio lōgitudinis cū latitudine maiori plus faciet ad totius maiorationē ꝙ̄ cū latitudine minori.ideo arg^m nō ꝓcedit. ❡ Pro 3° ꝯñe dī ꝙ ꝯcluſio eſt vera: ſi foret finite velox acq̄ſitio latitudinis 7 lōgitudinis: 7 ſic ꝓcedit arg^m p^m. Si tñ ſit ifinite velox acq̄ſitio vtriuſq3 dimēſionis: tūc nō eſt ꝯcluſio vera. Et H ꝓbat arg^m 2^m: q2 in caſu poſito finite velociter incipit augeri.ſ3 in infinitū velociter incipit acq̄rere tā de lōgitudine: ꝙ̄ ēt de latitudine: qḋ ſic pz.nā in via diminutionis in p̄ tpe diminuet̄ lōgitudo ad ſubduplū: 7 in 2° tpe ēt diminuet̄ ad ſubduplū.ḡ in 2° tpe in duplo min^o ꝑciſe deꝑdet de lōgitudine ꝙ̄ in p̄: 7 2^m tps eſt in q̄druplo minus: vt ponit caſus.ḡ in duplo velocius deꝑdet lōgitudo in 2° tpe ꝙ̄ in p̄: 7 in duplo velocius in 3° ꝙ̄ in 2°: 7 ſic in ifinitū per idē arg^m.ḡ in ifinitū velociter deſinet lōgitudo deꝑdi in p̄ tpe.ſ.in via diminutiōis. Cōſiliter nūc incipiet acq̄ri ſicut tūc deſinebat deꝑdi.ḡ ifinite velociter incipit lōgitudo acq̄ri.7 ſic arguit̄ de acq̄ſitiōe latitudis gradus. pz ergo reſpōſio pro vtraq3 parte ꝯñis.

Itē pro iſta mā eſt notādū ꝙ ſi ſint due ſupficies inequ lōge 7 eque late que eq̄uelociter ꝯtinue acq̄rāt de latitudine ꝓpor^r ſicut vna eſt alia lōgior: ita velocius alia maiorabit̄.ex q̄.n.cōtinue erūt eque late ꝓpor^r ſicut vna eſt alia lōgior: ita ꝯtinue erit alia maior: 7 per ꝯñs in ea ꝓpor^{ne} velocius maiorabit̄. ❡ Silr ſi ſint due ſupficies inequ late 7 eque lōge ꝯtinue ſ.ī:in b^o latitudinib^o per totū que eq̄uelociter acq̄rāt de lōgitudine ꝓpor^r ſicut vna eſt alia latior: ita veloci^o maiorabit̄. H ꝓbat̄: vt prius. ❡ Silr ſi ſint eque longe ſupficies ſiue ſint eque late vel nō: que eq̄uelociter acq̄rāt de latitudine: ille due eq̄uelociter maiorant̄: q2 erit eq̄lis acq̄ſitio latitudis.

reſpectu lõgitudinis eq̃lis:vt ſi.a.eẽt eque lõgũ cũ.b.⁊ in duplo lati⁹eo ſequet̃ q̇ eſt duplũ ad.b.Maioret̃ g̃ latitu do.b.ad duplũ:⁊ ſeq̃t̃ vt p3:q̇ latitudo duplabit̃ ⁊ maiore t̃ latitudo.a.eq̃ueloctter cũ latitudine.b.⁊ ſeq̃t̃ vt p3:q̇ latitudo.a.maiorabit̃ ad ſexq̇alteruʒ tm̃.g̃.a.fiet in ſexq̇ altero minus q̃3 nũc eſt:⁊.a.eſt duplũ ad.b.g̃ eq̃uelo' maiorabit̃.a.cũ.b.⁊ ſic vl'r verũ eſt.¶ Sil'r ſi ſint due ſupficies eque late ſiue eque lõge ſiue nõ:que eq̃uelo' acgrant de lõgitudine:iſte ẽt z^e eq̃uelo' maiorant̃.hec p̄bat̃ vt p̄ xima.¶ Sil'r ſi ſint due ſupficies inequ longe ſiue eque late ſiue nõ:que eq̃uelociter acgrãt de latitudine ppor' ſicut vna eſt alia lõgior:ita veloci⁹maiorabit̃.Sit ei3.a.lõgior ſuperficies:⁊.b.breuior ſiue eque lata ſiue nõ: ⁊ ſit.c. eque lata cũ.a.⁊ eque lõga cũ.b.⁊ acgrãt oĩa eq̃uelo' de latitudine ſtãtib⁹ lõgitu^{b3}:tũc ppor' ſic.a.eſt lõgior.c.ita velocius maiorat̃ q̃3.c.per p̄^m nõbile:⁊.c.eq̃ueloctter maiorat̃ cũ.b.iuxta 3^m nõbile:⁊ ppor' ſic.a.eſt lõgius.c.ita eſt lõgi⁹ b.g̃ ppor' ſic.a.eſt lõgius.b.ita veloci⁹maiorabit̃.¶ Sil'r ſi ſint due ſupficies inequ late ſiue eque lõge ſiue nõ:que eq̃ueloctter acgrãt de lõgitudine pportionabil'r ſic vna il lat eſt alia latior:ita veloci⁹alia maiorat̃.B p3 p z^m ⁊ 4^m nõbile.Sit ei3.a.1ª ſupficies latior:⁊.b.1ª min⁹ lata:⁊ ſit.c. eque lõga cũ.a.⁊ eque lata cũ.b.que eq̃uelo' acgrãt de latitudine:tũc p3 p z^m q̇ ſic.a.ſupficies ppor' eſt latior.c.ita velocius maiorabit̃ q̃3.c.⁊ per 4^m notabile.b.⁊.c.eq̃ueueloctter maiorabunt̃.ergo ſequit̃ ↄcluſio ⁊c.

¶ Tractatus 7^s De reactione.

Q͞ reactio ſit poſſibilis.

VTrum reactio ſit poſſibilis. ¶ Arguit̃ q̇ ſic:q2 capiatur.a.ignis purus dñans ſm calit^{e3} ſup.b.ſũme fridũ q̇ ſit aq̃:⁊ b.aq̃ ſm humi^{e3} dñet̃ ſup.a.ſm ſiccuatẽ ſuã equal'r:quo poſito ſeq̃t̃.a.agẽ in.b.ſm calitatẽ:⁊.b.reagere in.a.ſm humiditatẽ.ideo ↄcedit̃ reactiõe3
2 eẽ poſſibilẽ ſm tales q̃litates diuerſas.¶ Arguit ẽt q̇ eſt
reactio poſſibilis ſm eaſdẽ quãtitates.⁊ B per expimẽta.
¶ Primo p ferrũ ignitũ aque ipoſitũ:vbi ferrũ frigeſcit
3 ⁊ aq̃ calefit.¶ Itẽ p3 de aq̃ frida in aquã bullientẽ3 ĩfuſa:
4 q2 ceſſat ebullitio ⁊ aq̃ ipoſita calefit.¶ Idẽ p3 ẽt de manu frida poſita in ſinu calido q̇ man⁹calefit ⁊ ſinus frige
5 fit.¶ Itẽ ſi duo cultelli ſm acutiẽ ſimul percutiant̃ vterq3 in reliquũ agit partem alterius diuidendo:⁊ alia ſunt experimenta multa pro parte illa.

In oppoſitũ. p̄mo.

Contra q̇ reactio nõ ſit poſſi:p̄bo iſto⁹ q̇ calĩm calefacit fridũ:⁊ ſm aliquã ei⁹ptẽ3 frigeſcat a frido arguit̃:q2 ſi ſic tũc agat.a.ignis in.b.fridu3 minoris po^e q̃3.a.ita q̇.b.reagat p.c.ptẽ in.a.tũc p̄bo q̇ per 1^m ptẽ ĩtẽdet̃ cali^{as} ⁊ fri^{as}:q2 ſit gr̃a exẽpli q̇.a.ſufficiat agere p c.in.b.ſi vtrũq3 eſſet ſũme fridũ vel nõ op3 B ſupponẽ:q2. exñ.c.eẽt minoris po^e etiã ſi eẽt ſũme fridũ q̃3 pars nõ repaſſa.a.que ſit.d.⁊ ſeq̃t̃ q̇ ſi.c.eẽt ſũme fridũ ſicut eſt.b.q̇ d.p.c.ageret:ſ3 nũc.c.ſm oẽ3 pũctũ min⁹reſiſtit q̃3 tũc reſiſteret:⁊.a.nũc ad oẽ3 ei⁹ pũctũ hẽbit iſt'm agẽdi mediãte quo poſſet fridıtatẽ remittẽ in.c.qð nõ hẽet.c.ſic exñte ſũme frido.igit̃ a multo fortiori per.c.d.nũc aget calitatẽ:⁊ b.fridıtatẽ.igit̃ ſeq̃t̃ ↄcl'o.¶ Itẽ habeat.a.ad.b.pportionẽ q̃druplã:⁊ ſeq̃t̃ q̇.b.nõ reaget per 4^m.a.q2.b.ad 4^m a.nõ h3 pportiõe3 maioris inequalitatis:tũc ſicut pars nõ repaſſa eſt maioris po^e q̃3 ſint.b.⁊.c.igit̃.a.ↄti^e ſm.d.ptẽ3 hẽbit pportionẽ maioris ineq̃litatis ad.b.c.⁊.b.c.cõtinue erũt ſibi ↄ̃riaẽ meli⁹ ↄtinue applicabit̃.d.ipſi.c.q̃3 ipſi.b. ſequit̃ igitur q̇ ſi.d.aget in.b.q̇ a multo fortiori aget in.c. ¶ Sil'r ſi.c.eẽt ſũme frigidũ.d.ageret per.c.b.ipa ſibi aſſimilãdo:igit̃ a multo fortiori nũc.igit̃ ⁊c.¶ Itẽ ſi.c.eſſet ſũme fridũ cõpoſitũ cum.d.ipm̃.d.ageret per.c.indu^{oo} in ipm̃ calitatẽ:q2 foret ſufficiẽs ↄ̃rietas cũ vtro ⁊ aliq3 paris

Argumentũ hoc ẽ difficile qð multos fecẽ dubitare.

Cõfir^r p̄

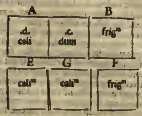
buſ:igit̃ cõtinuata actione ipius.a.per.c.⁊ incepta per.b. vel in.b.nõ ageret.b.in.c.eo q̇.a.ageret per.c.q2 aliter nõ ageret in.b.niſi per.c.eo q̇.c.itercipit̃ inter.b.⁊.d. Cũ igit̃ ad oẽm pũctũ.c.nũc ↄtinue erit minor reſiſtẽtia reſpectu b.q2 caliditas minor q̃3 foret ſi.c.in p̄n^o foret ſũme calidũ ſicut ponit̃ in caſu p̄:⁊.b.ↄtinue erit maioris po^e q̃3 tũc eẽt reſpectu.c.⁊ applicatio erit eque bona:igitur ſi.b.nũc nõ aget in.c.nec a multo fortiori in p̄ caſu egit in.c. ¶ Itẽ ſic q̃cũq3 inſtãti dato ſi tũc.c.diſcõtinuaret̃ a.d.⁊ cõtinuaret̃ cum.b.a.ageret per.b.mediãte.c.q2 aliter nõ ageret in.b. ⁊ q2.c.tũc ↄ̃riaret̃ ſm talem applicatiõe3 ⁊ foret ſufficiẽs vtriuſ3:ſ3 nũc in iſto inſtãti oĩa erũt paria:que tũc eẽnt p̄ter diſcõtinuatiõe3 ⁊ ↄtinuatiõe3 que peiore3 faciũt applicationem re^{ti}.d.⁊ meliorẽ re^{ti}.b.⁊ maiorẽ re^{tem} re^{ti}.d.igit̃ cu3 d.nunc ageret in.c.⁊.b.nõ per.c.ſequit̃ nũc.a.agere per.b. mediãte.c.vel ad minus in.c.⁊.b.nõ per.c.vel ſeq̃t̃ cõcluſio p̄tacta.ſ.per aliquã ptẽ3 ſimul caliditatẽ ⁊ fridıtatẽ intẽdi.¶ Ideo forte dĩ q̇ nõ eſt appetit⁹.d.cõtinue ad agẽdũ in.c.q2 in p̄n^o ſunt eque itẽſa.¶ L3 tñ B ponat̃ nõ ſoluit arg^m:q2 equalẽ appetitũ h3.d.quo ad omne ↄ̃riu3 aſſimilãdũ:ſed.c.ↄtinue poſt B erit ↄ̃riu3 ipſi.d.igit̃ poſt hoc erit appetit⁹ſufficiẽs:⁊ ſi diſcõtinuaret̃ eſſet ↄ̃rietas ſufficiẽs ↄtinue.igit̃ cu3 B eẽt pp defectũ latitudinis ad pũcta intrinſeca ⁊ nũc eſt ↄſilis defect⁹ſicut tũc:igit̃ ↄ̃rietas equalis:⁊ per ↄñs appetit⁹ eq̃lis.¶ Itẽ remoto.b.ab ipſo.c.d. appeteret agere in.c.ſ3 nõ videt̃ rõnale q̇ pp remotione3 b.varıet̃ appetit⁹.d.quo ad agẽdu3 in aliud.igit̃.b.applicato.c.habet.d.appetitũ ad aſſimilãdu3.c.⁊ nihil erit ipediẽs niſi.b.vel.c.que ſimul iuncta ↄſtituũt minorẽ reſiſtẽtia3 q̃3 eſt po^a.d.igit̃.d.aget in.c.⁊ per ↄñs riſio eſt nulla. ¶ Itẽ remoueat̃.b.tũc vel aget.d.in.c.vel nõ.ſi nõ:igitur ante ſi ſteti ſſent.b.d.nunq̃3 aſſimilaſſet.c.⁊ per ↄñs nec.b. cu3.c.itercipit̃ iter.b.⁊.d.Si agit:igit̃ h3 appetitũ:vel nõ. ſi ſic:B eſt ex eo qð eſt ſibi ↄ̃riu3:ſ3.b.approximato manet ↄ̃rietas eq̃lis.igit̃ approximato.b.d.appeteret agere in.c.vel ſi nõ:B eſt pp.b.ſ3 cum.b.ſit minoris po^e q̃3.d.ſequit̃ q̇ minor po^a impediet maiorẽ tã ab appetitu q̃3 ab actione.igit̃ ſeq̃t̃ motu3 a pportione minoris ineq̃litatis pueniri.¶ Itẽ ſi in p̄ caſu.d.nõ appeteret agere in.c.hoc eẽt:q2 actio eius p̄ncipalis itẽdit in.b.cu3 igit̃ q̃uſq3.b.erit aſſilatũ.a.actio.a.inequal'r vel plus tẽdit in.b.ſicut in p̄n^o. igit̃ nunq̃3.d.appetet agere in.c.¶ Itẽ ſiue B agat aliqua actione ſiue nõ:dum tñ appetit in p̄n^o:ſemp ſuus appetit⁹ manet eq̃lis:vt q̇libet experit̃ de ſeipſo.igit̃ ſ3 aliud agat p qð ipm̃ d3 agere:vel in qð ipm̃ d3 agere remoto p̄hibẽte appetit⁹quo ad agẽdu3 per actionem alterius nõ auferẽ. ¶ Itẽ ex 1ª riſione ſeq̃t̃ q̇ vbicũq3 eſt actio ⁊ etiã reactio fortioris indebili⁹remittet̃ actio maioris in minus anteq̃3 aſſilatio erit facta per magnã latitudinẽ.⁊ hoc ſubito cu3 aliq3 partibus.¶ Itẽ ſeq̃t̃ q̇ eadẽ pars ſimul ipediet ⁊ iuuabit re^a eiuſdẽ agẽtis ⁊ eiuſdẽ actionis.¶ Itẽ ſeq̃t̃ q̇ ſubito deꝑdet̃ magna latitudo mot⁹ ſine acq̇ſitione reſiſtẽtie vel remiſſione po^e ſubita.¶ Itẽ tã mot⁹agẽtis q̃3 motus reagẽtis ſimul vel ſine tpe medio per magnã latitudinẽ ſubito remittet̃:q2 vt dicit hoc poſitio reactio ceſſat cũ agẽs ⁊ patiẽs ſm extrema approximata ſunt ſĩlia ob defectũ ↄ̃rietatis.tunc capiat̃ illud inſtãs in quo ceſſabit reactio iter.b.⁊.a.⁊ arguit̃ ſic.ante illud inſtãs.c.pars nõ reſiſtet ipi.d.q2 nunq̃3 reſiſtet aliquid alicui agẽti tali q̇ nec agit in ipm̃ nec nitit̃ agere:ſ3 per põne3.d.ante illud iſtãs nõ aget in.c.nec nitit̃ agere in.c.igit̃ ante illud inſtãs.c.nõ reſiſtet.d.ſ3 in iſto inſtãti vel imediate poſt i^d inſtãs.c.ſub certo g^{tu} reſiſtit ipi.d.eo q̇ tũc aget.d.in.c.⁊.b.tũc in nulla ppor^{ne} minus reſiſtet q̃3 p̄us.ↄtinue.n.reſiſtet ſm vlt^m ſui poſſe:eo q̇ eſt agẽs nãle:nec etia3.a.in aliq̃ ppor^e tũc erit.

R̃n^o

Cõtra

maioris

maioris po. ꝗ̄ pūs. igiẗ nūc aget vel incipit agere in. b. in magna ꝓpor. tardi ꝗ̄ pus: eo ꝙ tūc incipiet agere in. c. vt ponit illa poſitio. igiẗ ſeqẗ ꝯclō ꝛc. ¶ 2 ꝯclō ēt ſeqẗ: qꝛ a. pars tūc ipediet re actionis. d. in. b. qꝛ tardius aget ꝗ̄ ſi. c. tūc eēt ablatū. igiẗ. c. tūc reſiſtet ipi. d. Et ꝙ iuuabit. d. re actionis in. b. pꝫ: qꝛ ꝯti caliditas erit maior frigi: ꝛ ēt ſm extre approximatū ꝯti poſt illud inſtās icēſiue erit ꝗ̄. b. ſm extre ſibi approximatū: eo ꝙ tardi aget. d. in remotū. c. ꝗ̄ in ꝓpinquū ei. igiẗ ꝯti nuet. c. agere in. b. ꝛ ꝑ ꝯñs ꝯti iuuabit. a. ad agēdū in. b. igiẗ ſeqẗ ꝯclō. ¶ Itē 3 ꝯclō ſeqẗ: eo ꝙ tūc nō reaget. b. in. c. ꝛ ꝯti ante reaget cēteciō citer ꝛ ex certa ꝓpor: qꝛ aliter ceſſaret reactio ꝑꝑ defectū ꝓpor qȯ negat illa poſitio. igiẗ ſeqẗ ꝯclō. ¶ 4 ex p et
Ar ad pm 3 ſeqẗ manifeſte. ¶ Aliter argr̄ in p caſu ꝙ. b. non reaget in. a. per. c. ptē: qꝛ. d. ſufficit aſſilare ſibi. c. ꝛ facere ſūmū. c. ipſo. b. ſibi applicato: ꝛ. d. c. extitib ꝯiūctꝛ equefacile vel facili eſt ꝯſuare ꝗ̄ gñare. igiẗ. d. ſufficit cōſeruare. c. ne. b. agat ꝑ ipſaꝫ ptē. a. maior pꝫ: eo ꝙ ſufficiēter dñat. d. ſupra b. c. ¶ Itē ſic ſi. c. pro aliq̄ iſtāti eēt ſeparatū ꝛ equalr̄ poſitū iter. b. d. ꝛ ſufficiēter approximatū illi. d. aſſimilaret aliquā ptē illi: ꝛ ageret in aliquā ptē ei ante q̄dcūqꝫ iſtās datū: ꝛ in caſu dato. c. erit equalr̄ ꝯiūctū. d. ſic tūc foret ꝛ approximatio ita bona vel melior. igiẗ ꝛc. ¶ Pro iſtis coiter dr̄ ꝙ nūc nō eſt. d. ita ſufficiēs ad aſſilare. c. ſic ſi eſſent ſeparata abinuicē: qꝛ tūc. d. nō ageret in. c. niſi ex B ꝙ foret ſeparatū ꝛ ſufficiēter ſibi ꝯiūctū quo ad actionē vl̄ ſuſceptionē actionis. ¶ Cōtra. ex B ſequiẗ ꝯtinuationē ipedire actionē ibidē: ꝛ ſic ſeqẗ. d. nunꝗ̄ aſſilare ſibi. c. qꝛ cōtinue
Rñſio manebūt ꝯtinua adinuicē ſicut nūc ſunt. ¶ Pro iſto dr̄ ꝙ ꝯtinuatio illā actionē nō impedit: ſꝫ actio reagētis in illaꝫ
Cōtra ptē. ¶ Cōtra. c. ſeparato pro aliq̄ inſtāti ab ipſo. d. ſi aliqs poneret. b. agere ꝑ. c. ſic iuxta. d. nō vlteꝫ foret argm̄ cōtra cuꝫ niſi B ꝙ. d. foret maioris po. ꝗ̄. b. ꝛ ſufficiēter approximatus illi. igiẗ a maiori. d. ageret in. c. ꝗ̄. b. niſi capiatur in argo ꝙ tūc. c. erit etiā ſeparatū a. d. ꝙ ſi capiaẗ imediate: ſequiẗ illā ꝯtinuationē actionē ipedire: qꝛ aliter nō faceret ad argm̄. Et idē eſt argm̄ cum eiſdē añtibus veris ꝙ pōt fieri ꝯtinuatio. c. cum. d. igiẗ in p caſu ꝯcludiẗ. d. agere in. c. vel cōtinuationeꝫ illā actionē ipedire: qȯ negat rñſio. ¶ Itē ſit aliqȯ inſtās ꝛ ponaẗ. c. in illo iſtāti ſeparari a. d. ꝛ pono obſtaculū inter. d. c. ꝓpter qȯ. d. nō agat in. c. ꝛ ſeqtur. b. agere in. c. qꝛ nō eſt aliqȯ ipediens eius actionē. remoueaẗ igiẗ iſtud obſtaculū a. d. ꝛ ſit illud inſtās in quo obſtaculū erit remotū: tūc vel. d. agit in. c. vel nō. ſi nō cōtra eſt maioris potētie ꝗ̄. b. ꝛ ad oēꝫ pūctū. c. habet maioreꝫ ꝓportionē ꝗ̄. b. igiẗ agit in. c. eo ꝙ eſt ꝯiūctus ſufficiēs. Si agit ꝯtra. d. c. extitibus ꝯtinuis in caſu poſito. d. nō ageret nec inciperet agere in. c. cuius cā foret actio. b. per. c. cum igiẗ nūc eſt actio. b. per. c. ſequiẗ ꝙ. d. nūc nō agit in. c. nec incipit. ꝯñria tenet: ex eo ꝙ poniẗ cōtinuationē nō impedire: ſed ſoluꝫ actionē. b. in. c. ne. d. agat in. c. Si dicaẗ ꝙ lꝫ b. aget in hoc iſtāti. ſ. in inſtāti in quo remoueẗ obſtaculū ꝛ ꝯtinue ante agebat per. c. nūc tñ deſinit agere ꝑ. c. ꝛ ideo eius actio nō impedit actionē. ¶ Queriẗ igiẗ cā quare in caſu p'mo q̄cūqꝫ inſtāti dato. b. nō deſinit agere per. c. ſicut ſi ſepararenẗ: ꝛ nō erit cā ponēda niſi ponatur cōtinuatio que nō videẗ cā ſufficiēs. ¶ Itē ſit. e. ſūme calidū equalis po. cum. d. ꝛ. f. ſūme frigidū eq̄lis potētie cuꝫ. b. ꝛ. g. ſūme calidū equale cuꝫ. c. poſitū equalr̄ iter. e. ꝛ. f. ꝛ ſit approximatio ꝯſilis. f. ad. g. ſicut. b. ad. c. tunc vel aget. f. per. g. vel nō. ſi nō ꝯtra equebene approximaẗ. f. ad. g. ſicut. b. ad. c. ꝛ nō eſt aliqȯ ipediēs plus reſpectu ſue actionis ꝗ̄ reſpectu actionis. b. in. c. imo plus: qꝛ omne agēs nāle plus nitiẗ nāliter cōſeruare ptēꝫ ſui ſubiti ſub gradu ſuo ꝗ̄ aliqd aliud extrinſecū ſub eodē gradu. Cū igiẗ iuxta illā reſpōſionē. d. nō impediet actionē. b. in. c. igiẗ nec ſilis potentia cuꝫ. d. impediet actionē. f. per. g. ꝛ per ꝯñs ſequiẗ. f. incipe agere per. g. vſquequo habeat frigiditatē. igitur ꝛc.



¶ Cōtra arguiẗ ꝙ nō: qꝛ. g. incipit eē ꝯiūctū ipſi. e. ꝛ eſt in ſufficiēti applicatione: ꝛ ſeparatū a. g. igitur ſi. f. imediate poſt B aget per. g. a multo fortiori. e. incipit agere in. g. igitur in. g. ſimul incipit intēdi caliditas ꝛ friditas ad eūdeꝫ pūctū. ¶ Itē ex quo. e. ſic incipit agere in. g. ꝛ. d. nō impediet aliq̄ modo aliter ꝗ̄. e. eo ꝙ cōtinuatio nō ipediet ꝛc. ꝛ. d. approximaẗ equebene vel meli ad. c. ſicut. e. ad. g. igiẗ d. incipit agere in. c. igitur. b. nunꝗ̄ aget per. c. ꝛ ita arguiẗ de omni pte. a. igiẗ. b. nō reaget in. a. Nā ſi capiaẗ applicatio illoꝝ adinuicē vel ſilitudo ſm extrema ad. c. approximata: vel ita de alijs que pñt ipedire actionē. d. in. c. oia inuenienẗ cōſilr̄ inter. e. ꝛ. g. ¶ Iteꝫ in caſu pñti arguiẗ ꝙ ſi. f. incipiat agere per. g. ꝙ etiaꝫ. e. incipiat agere per. g. qꝛ ad oēm pūctū. g. ſe hēbit. e. cōtinue in maiori ꝓportiōe ꝗ̄ f. qꝛ ad oēm pūctum hēbit iuuamētū meli: ꝛ fortius quo ad actionē caliditatis ꝛ remiſſionē friditatis ꝗ̄. f. ad actionē ꝯriā. igiẗ ſi. f. incipit agere vel vnꝗ̄ agit per. g. a multo maiori. e. incipit agere per. g. igiẗ ſequiẗ p ꝯcluſio. ſ. ꝙ per idē ſimul intēdeẗ caliditas ꝛ frigiditas. Et ſi queraẗ in caſu p'mo precedēte qñ poniẗ ꝙ. c. ſepareẗ a. d. cuꝫ obſtaculo ꝛc. tūc cā quare. b. deſinit reagere per. c. eſt: qꝛ. d. incipit agere in. c. Et cā quare. d. incipit agere in. c. eſt: qꝛ. d. eſt maioris po. ꝗ̄. c. Et qꝛ. b. deſinit reagere in. c. igiẗ cā quare. b. deſinit reagere in. c. eſt: qꝛ ipm deſinit reagere. Uel aliter nō videẗ cā quare. d. c. extitib cōtinuis. d. nō incipit agere in. c. ꝛ. b. deſinet ꝛc. ¶ Arguitur tūc ꝙ. b. nō deſinet reagere in. c. qꝛ ſi ſic hoc erit vt ponit cōis poſitio qñ ſm extrema approximata eēnt. b. c. ſilia. ſed arguiẗ ꝙ nō: qꝛ vel hoc erit ꝓpter defectū ꝓportionis: vel ꝓpter defectū ꝯiūctiōnis. Nō p'mo modo: qꝛ tūc. b. ad aliquā ptē. c. ſe habebit in ꝓportione maioris ineq̄litatis. Si 2 modo. cōtra: lꝫ ad pūcta tūc extrema imediata erūt. b. c. ſilia: tñ ad oēm pūctuꝫ intrinſecū vtriꝰ. ſ. b. erit frigiditas certa ſic. ſ. ꝙ ſupat aliquā ptēꝫ vltra. c. ſibi imediatā dñabiẗ: in aliqua pte. ei igiẗ ſufficit agere fridiatē inte lꝫ nō ad pūctuꝫ ſibi imediatuꝫ nō ſufficiat. ¶ Pro quo dr̄ ꝙ ſm illā approximationeꝫ nō agit: eo ꝙ ſunt ſilia ſm extrema approximata. ¶ Cōtra. ex B ſequiẗ ptēꝫ nō repaſſam nunꝗ̄ aſſimilare nec agere in ptē repaſſam: qꝛ ſm extrema approximata erūt ſilia: ꝛ per ꝯñs iuxta illā poſitionē vnū ſūmū nō ſufficeret aliud aſſilare: qꝛ ſm extrema approximata nunꝗ̄ eēnt actiones iter illa ꝛ vtrumqꝫ extremū maneret remiſſum: qꝛ nō intēdereẗ per ptē repaſſam. ¶ Itē ſic capiaẗ illud inſtās in quo. b. c. erūt ſilia: tūc ſi. b. eēt pro iſto inſtāti maioris potētie ꝗ̄ tūc erit. c. ſ. maioris q̄ntitatis: tūc oēm gradū frigiditatis ab eo actū per maiorē diſtātiā ſufficeret agere: ꝛ per ꝯñs ſi vnū pro tūc ſit ꝯſilē. b. qualitatiue ꝛ maioris quātitatis ꝗ̄. b. vltra pūctū ſibi imediatū. c. ꝛ ad diſtātiā vlteriorē frigiditatē ageret nō obſtāte ſilitudine inter extrema. ¶ Pro quo poſſet dici ꝙ ex argumēto nō

ſequit̄:qm̄ pars nō repaſſa aliq̄d ageret in ptē repaſſam:
q̄a tūc totū.d.erit vniforme:ꝛ ſic nō erit.b.imo multū dif/
forme.Sꝫ illud nihil facit.Signo.n.aliq̄d repaſſuꝫ cuius
magna pars ſit vniformis ꝛ imediata ei⁹ pars difformis
terminata ad illū gradū.c.ita modice tñ po⁹ q̄ tota pars
vniformis illā ſibi ſufficiat aſſil'are:vt ponit m̄ſio eē poſ/
ſibile:tūc illa pars vniformis aſſilabit ſibi aliā ptē eā ad
vniformitatē reducēdo.igit̄ a multo maiori ſi ad oēz pū/
ctuꝫ illius ptis vniformis eēt quātitas īteſior ſiue vnifor/
mis ſiue difformis:duꝫ m̄ nō ad extremū ſequit̄ illā ptēꝫ
in ptē remotā ꝯtinue agere:ꝛ tūc vtraq̄ȝ pars foret diffor/
mis ſm̄ extrema approximata ſiīlia.igit̄ reſponſio nulla.
¶ Aliter arguit̄ q̄ iter eq̄lia nō ceſſat reactio:lꝫ per poſi/
tionē dicat̄ q̄ ſic:qn̄.ſ.medietas latitudinis erit inducta.ꝛ
hoc nō eſt vt cōiter dr̄:niſi ꝑꝑ defectū ꝯtietatis ſm̄ extre/
ma approximata. Agat igit̄.a.in.b.tūc:exp̄ō tunc erūt ſiliꝫ
ſm̄ extrema approximata.applicent̄ ergo ſm̄ alia pūcta
diſſilia:ꝛ ſequit̄ q̄ vlterius manebit reactio iter illa.cum
igit̄ ifinite erūt ptes iſtoꝝ diſſil'es que in diuerſis tp̄ibus
pñt adinuicē applicari ꝛ ad aſſil'ationē oium ptiū tp̄s ma
gnū reqrit̄:igit̄ per ifinitū tp̄s pōt hȝ actio remanere.vel
durare:ꝛ ad certa pūcta ꝯti⁹ certeuelociter maneret actio.
igit̄ ifinitā latitudinē pōt vnū in reliquū inducere:vel ſe/
quit̄ q̄ vnū aliud ad ſūmū reduceret. ¶ Itē ponat̄ q̄ cū
erūt ſiīlia ſm̄ extrema approximata q̄ vnū coꝝ ꝑgredia/
tur local'r ſic q̄ extremū motū erit ſemꝑ ad punctū diſſi/
milē:vt eſt ſatis poſſibile:ꝛ inde nō recedat gratia exēpli
īnteꝗ̄ ſm̄ talia pūcta erūt ſil'ia:tūc exp̄ō extremū.b.obuia
bit caliditati īteſiori ꝛ īteſiori:ſequit̄ q̄ ſm̄ illud extremū
fiet.b.ſūmuꝫ ꝛ ſupra mediū:ꝛ ſic nulla erit maxima latitu
do que in hȝ reactione inter eq̄lia poterit induci:imo ſtat
a.in vno extremo hr̄e caliditatē ſūmā:ꝛ in alio frigiditatē
ſūmā:ꝛ ſic de alijs.Uel q̄ aliqñ ceſſabit reactio ꝑpter de/
fectuꝫ ꝓportionis ꝛ nō ꝯtietatis.qđ negat̄ cōiter:imo q̄ſi
ab oīb⁹. ¶ Itēꝫ nō ſoluit̄ arg⁹ qn̄ ad pūcta itrinſeca poſ/
ſet hȝ inteſio eē:lꝫ nō ad extrema approximata.

De reſiſtē/
tia accñta
li in motu
alteratiōis

Pro iſta m̄ā ponat̄ vna poſitio q̄ nulla eſt reſiſtē/
tia accidētalis in motu alteratiōis:imo
pars in qua eſt actio ſolū reſiſtit:ꝛ ſic pars nō repaſſa non
nitit̄ aliā ptē ꝯſeruare.Et ex iſto ſeq̄t ꝛ ꝯcedit̄ q̄ vbicuꝗ̄
ſūmuꝫ incipit agere in ſūmū ifinite velociter incipit age/
re:nō tñ ita ꝯtinue faciet:q̄a ꝯtinue aget per ptē maiorē ꝛ
maiorē:ꝛ ſic magna pars pro q̄cūꝗ̄ inſtāti reſiſtit. ¶ Ar/
guit̄ tñ q̄ illa poſitio ſit falſa.nā ex illa ſequit̄ q̄ aliq̄đ ifi/
nite velociter agit per certū tp̄s.applicet̄ enim.a.ignis ſū/
mus ad.b.aquā ſūmā.vnde q̄ȝ per ifinitā modicā ptē inci
pit agere:ponat̄ q̄ ſemꝑ corrūpat̄ pars per quā erit actio
ſic q̄ qñcūꝗ̄ actio deueniet ad aliquē punctuꝫ.b.diuidat̄
iſta pars a pte reſidua vel corrūpat̄ ꝛc̄.ꝛ moueat̄ agēs lo/
caliter:ſic q̄ ſemꝑ approximet̄ ad ptē ſūmā paſſi:tunc ſe/
quit̄ q̄ ifinite velociter ꝯtinue aget:eo q̄ ꝯtinue erit ſum/
mū vtrūꝗ̄ illoꝝ. ¶ Itē ſi ſolū pars per quā eſt actio reſi/
ſtit agēti:ſequit̄ q̄ ſubito gradū ſūmuꝫ vel aliquē aliū cer
tuꝫ induceret.ꝛ nō eſt maior ratio de vno q̄ȝ de alio:igitur
oēm ſubito induceret:ꝗ̄a capto vno ſūmo frido q̄ in aliq̄
tp̄e aſſilaret̄ ab.a.aliud hñs minorē quātitatē in dupla ci
tius aſſilat̄ ab.a.ꝛ ſic in ifinitū:igit̄ ifiniti cito aſſ'larētur
aliq̄đ ſumme frigidū ab.a.ſi per ſe exiſteret ꝑꝑ paruitatē
q̄ntitatis ꝛ reſiſtētie ſemꝑ:ſꝫ per infinitā modicā ptē inci/
pit agere nō magis reſiſtētē q̄ȝ ſi per ſe exiſteret.duꝫ igit̄
ſubito aſſilaret aliq̄đ ſūme frigidū:ſeq̄t̄ q̄ tūc incipit aſſi
milare aliquā ptē.b. ¶ Arg⁹ ꝯfirmat̄ per hoc ſi forēt infi
nita:vnū alicui⁹ quātitatis:ꝛ aliud minoris:ita q̄ in ſubdu
plo tp̄e aſſil'arent:ꝛ ſic deinceps in ifinito modico tp̄e aſ/
ſil'aret̄ aliq̄đ iſtoꝝ.Sed nūc ꝯſil'r eſt de ptib⁹.b.q̄a in aliq̄

tp̄e aſſil'aret̄ vna:ꝛ alia in ſubduplo tp̄e:ꝛ ſic in infinitū ſi
per ſe eēnt:ꝛ nūc nō reſiſtit aliq̄ pars plus q̄ȝ tūc:igit̄ inci
pit.a.gradū ſūmuꝫ inducē in aliquā ptē.b.qđ fuit ꝓbādū.
Uel aliter ſequit̄ q̄ ipediret̄ ꝓpter ꝯtinuationē:ꝛ ſic alie
ptes reſiſterēt:qđ negat poſitio. ¶ Itē.a.aliqual'r veloci/
ter agēdo aliquā latitudinē in aliq̄ tp̄e induceret,ꝛ tātā in
tp̄e ſubduplo du⁹ velocitate mouēdo:ꝛ ſic in ifinitū.igit̄ ſi
in ifinitū velociter incipit agere:ifinitā latitudinē incipit
ſubito induce ꝛc̄. ¶ Itē arguit̄ q̄.a.incipit agere per totū
b.q̄ȝ ad oēm pūctuꝫ ſufficiēs eſt agere:ꝛ ad nullū punctū
eſt impedi⁹ actionis:q̄a ad illū nō ageret cum nulla pars
tribuat reſiſtētiā vni pūcto plus q̄ȝ alteri:igit̄ ad illud in/
cipit agere.ꝯñia pꝫ de luminoſo agēte per mediū vnifor
me. ¶ Itē ex i⁹ pōne ſequit̄ omne elm̄tū in ſua ſphera eē
remiſſum.Nā applicat̄ ignis ꝯtinue ad aliquā ptē aeris:
qui ignis eſt certe po⁹.ꝛ ſi aer ſit vniformis ꝛ ſūmus ifini/
te modice pars ſibi reſiſtit:ꝛ ſup certā ptē illius dn̄aret̄ ſi
eēt per ſe:ſꝫ nūc nulla pars aeris hȝ reſiſtētiā ex alia par/
te:igit̄ ille ignis incipit agere in aliquā partē aeris ſi nunc
ſit ſūmus.ꝛ ꝯſil'r ante h̄ agebat ꝯtinue:igit̄ cuꝫ cōtinua ſit
actio iter illa elm̄ta:ſequit̄ vtrūꝗ̄ illoꝝ.ſ.tā aerem q̄ȝ ignē
eē remiſſum.ꝯſil'r arguit̄ de alijs aqua ꝛ terra. ¶ Itē ar/
guit̄ q̄ in alterande ſit reſiſtētia accñtalis.ſi.n.nulla pars
diſtās a parte in qua eſt actio reſiſtat agēti:igit̄ nulla alia
pars diſtās a paſſo iuuat aliā ad agēdū.ꝯñia tenet per lo
cuꝫ a ſili.ꝛ ſi ſic ifinite modica pars agit infinite modice
po⁹ exiſtēs.ꝯñia arguit̄.diuidat̄.n.in ptes ꝓportionales
ꝟſus paſſum.ꝛ ſequit̄ q̄ p⁹ pars ꝓportionalis nō iuuat ad
agēduꝫ:q̄a diſtat a paſſo.nec 2⁹ per idē:ꝛ ſic in ifinitū:igit̄
nulla eſt pars ꝓportionalis huiꝗ̄ que ſm̄ illam diuiſionē
aget.ꝛ ſi ſic cuꝫ ꝯtinue poſt h̄ erit actio per aliquā ptē ali/
qual'r reſiſtētē.pꝫ q̄ ꝯtinue erit actio a ꝓportione maioris
ineq̄litatis.ꝯñs eſt falſum:igit̄ ꝛc̄. ¶ Itē ſequit̄ q̄ nullius
difficultatis eēt agere in paſſum aliq̄đ ſūmuꝫ cum ifinite
modice reſiſtet omne tale. ¶ Itē ſequit̄ q̄ oia eēnt eq̄lis
po⁹ quo ad inceptionē actionis:q̄a oē ſūmū in aliud ſūmū
poſſet incipe actionē:igit̄ ꝛ illā actionē poſſet ꝯtinuare.
¶ Penes q̄đ attēdit̄ po⁹ rei ꝛ qual'r vna pars iuuat aliā.

PRo iſta igit̄ m̄ā de reactione eſt notāduꝫ
penes q̄đ po⁹ rei attēdit̄:ꝛ qual'r
vna pars iuuat aliā ad agēduꝫ:ꝛ qual'r ad reſi/
ſtēdum. ¶ Pro cui⁹ itellectu eſt ſciēdū q̄ ſicut
in quātitate pedali terre ſūme plus eſt de m̄ā q̄ȝ in peda/
li ignis ſūmi:vt dictum eſt:vbi tāgebat̄ de raritate:ſic in
ſubto aliq̄ vniformi in duplo plus eſt de m̄ā que eſt for⁹in
toto q̄ȝ in me⁹ nō ſolū acci⁹ ly plus īteſiue:ita q̄ īteſior
ſit caliditas in toto q̄ȝ in eius medie⁹:nec extēſiue ſolū:ita
q̄ extēdat̄ in ſubto duplo:q̄ȝ capiat̄ ignis pedalis q̄ntita/
tis qui cōdēſet̄ ad ſubduplū per imaginatiōeꝫ ſine deꝑdi
tione for⁹.ꝛ ſeq̄t̄ q̄ in fine erit ſemipedalis hñs eādeꝫ for
maꝫ quā nūc hȝ totū:ꝛ per ꝯñs in duplo plus tūc hēbit de
for⁹ quā nūc habet vnū eius ſemipedale:ꝛ tñ illa for⁹ tūc
nō erit inteſior q̄ȝ nūc eſt for⁹ in illa medietate nec maior
extēſiue:vt notuꝫ eſt.Et ideo maior multitudo eſt de for⁹,
in toto q̄ȝ in medi⁹ vbi totum eſt vnifor⁹:ꝛ ſic penes mul/
titudinē vel penes paucitatē dicte forme attēdit̄ toti⁹ po/
tentia.Et h̄ ſiue ſit in quātitate maiori ſiue minori:imo ſi
per imaginationeꝫ illa for⁹ que nūc eſt pedalis extēderet̄,
vel foret in indiuiſibili:po⁹ illius indiuiſibilis tūc eēt tāta
ſicut nūc eſt illi⁹ pedalis. ¶ Qđ ſic arguit̄.a m̄ā nulla ha/
bet̄ po⁹ actiua:q̄a i⁹ eſt paſſiua ꝛ nō actiua.nec a q̄ntitate:
q̄ȝ quātitas de ſe nō eſt actiua:eo q̄ ois actiuitas puenit a
for⁹ aliq̄ actiua:ꝛ nulla eadē for⁹ eſt actiua ꝯtrarioꝝ ſaltē
loquēdo de for⁹ nō cognitiua.ꝯñia arguit̄ ſic.ſi quātitas
ſit actiua:det̄ igit̄ ignis pedalis quātitatis.vel igit̄ illius
ignis q̄ntitas

Nota q̄ño
ſit itellu⁹
qñ dr̄ ali/
quid hēre
plus ŏ for
me.

Penes
multitudi
nē for⁹ at/
tēdit̄ pote
tia rei.

ignis q̄ntitas eſt actiua cōſſis actionis ſicut ignis vel eius for. vel eſt actiua actiōis ꝯrie: vel vtriuſq;: vel oīno actionis diſpatc. Si q̄titas ſit actionis ꝯſilis ſicut eſt actio forme ignis: igit̄ ſi ex illo igne gn̄et̄ terra adhuc remaneret illa actiuitas nālis illius q̄titatis qn̄ foret ſub for. terre: ꝛ prius habuit nālez actiuitatē forme ignis: igit̄ tūc hēbit de ſe eādē actionē: ꝛ per ꝯn̄s tūc ipediet terrā ſeu eius for.ᵃᵐ a gn̄atione terre. reſiſtet eiꝫ in tali gn̄atione: qꝛ nitit̄ gn̄are ignē: ꝛ per ꝯn̄s terra nō erit maioris po. actiue ꝓpter illā q̄titatē: ſꝫ potius minoris. Idē eſt argᵐ ſi ſit actiua forme ꝯrie ad actionē forme ignis: ſi vtriuſq; erit actiua. ſ. illarū actionū ꝯriaꝝ: igit̄ ad neutrius gn̄ationē iuuabit: vel qua rōne ad vni. gn̄ationē iuuabit eadeꝫ rōne iuuabit ad aliā actionē ſimul: igit̄ reᵐ eiuſdē iuuabit ꝛ ipediet qđ eſt irrationale: ſeq̄t̄ etiā ꝙ ignis nō dicit̄ maioris po. ꝓpter illaꝫ quātitatē ſi quātitas ſit actiua actionis diſpate ab vtraq; actione illoꝝ ꝛ nullius illaꝝ. Sequit̄ igit̄ ꝙ nullū elm̄tū maioris erit po. ꝓpter eius quātitatē loquēdo de actiuitate illi elm̄to nāliter cōpetente. pꝫ igit̄ ꝙ quātitas nō iuuat ad poᵃᵐ actiuā: ſed ſolū for. Nec pōt dici ꝙ aliqd ſit maioris po. ꝓpter dēſitatē: qꝛ dēſitas eſt maior in illo ſubto ꝓpter h̄ ꝙ plus habet de mā que nō eſt actiua: igit̄ lꝫ medietas illius māe eēt ablata manēte eadē for. tota po. maneret equalis ꝛ denſitas foret minor: ſi maneret quātitas toti.: igit̄ nō eſt ſimpl'r maioris po. ꝓpter eius denſitatē. ¶ Si igit̄ querat̄ quare igit̄ eſt ꝙ dēſius forti. agit q̄ꝫ rarius manēte eadē for. ſicut eſt de ferro ignito: ꝛ de flāma ignis. Dī ꝙ hoc eſt: qꝛ for. illa eſt in quātitate minori in illa mā denſiori q̄ꝫ in rariori: ꝛ ſic melius applicat̄: ꝛ ad ſuū ꝯriuꝫ vt in ipm̄ agat. Silr̄ eſt de lata tabula deſcēdēte in aere ſi cōprimeret̄ ꝛ fieret rotūde figure vel q̄titatis minoris ſine ablatione forme tota illa tabula velocius deſcēderet: vt apparet experimētalr̄. Cuius cā eſt: qꝛ meli. applicaret̄ ad ptes medij: ita ꝙ minor pars medij ſibi obijceret̄ q̄ꝫ prius: ita ꝙ minorē reſiᵃᵐ habet a medio q̄ꝫ prius habuit: ꝛ tamē totū in rei vītate nō eſt maioris po.: qꝛ nō eſt aliud argᵐ ad h̄ ꝓbāduꝫ niſi ꝙ velocius mouet̄ q̄ꝫ prius. ꝛ illud nihil ꝓbat: vt dictū eſt. Et ſic vꝫ eſt verū ꝙ tota po. eſt ex eius for.: ꝛ tn̄ vna pōt fortius vel debilius agere ex h̄ ꝙ peius vel melius applicaret̄ ſuo ꝯrio. Vn̄ mot. non ſequit̄ abſolute ꝓportionē po. ad reſiſtētiā: ſed cū ceteris paribꝰ. ſ. cuꝫ applicatione ꝛ alijs talibꝰ ſicut in exēplo. capiat̄ fortis hō qui certa velocitate trahat nauim ꝛ cōtingit accipe aliquē debilē qui cuꝫ aliq̄ applicatione ſufficeret ipm̄ iuuare per certā latitudinē mot.: ꝛ cuꝫ alia applicatione per maiorē ꝛ cū alia per minorē: vt ꝯſtat. idē etiā agēs pōt cuꝫ aliq̄ applicatione aliq̄ velocitate agere: ꝛ cū alia maiorē: ꝛ cuꝫ alia minorē: ꝛ tn̄ po. illius maneret ꝯtinue eq̄lis: ꝛ ſic ſolū iuuat cōdenſatio ad actionē. ¶ Nota tn̄ ꝙ ſi eēt aliqđ h̄ns formā aliquā in certa q̄titate ꝛ certa mā: lꝫ medietas illius māe eēt ablata ſtāte tota for. in quātitate ꝓhabita totū nō fiet minoris po. quo ad agēdū: ſed eq̄lis ſicut prius fuit: qꝛ mā illa nullā habet de ſe nec habuit po.ᵃᵐ actiuā: ꝛ tūc etiā equebn̄ approximaret̄ ad aliqđ ſuū ꝯriū ſicut exiſte tota mā in iſto toto. Et ideo cā quare ferrū ignitū plus ledit q̄ꝫ flāma eiuſdē q̄titatis vel eq̄lis eſt h̄ cā: qꝛ plus eſt de for. in illa quantitate ferri q̄ꝫ in illa q̄titate flāme ſibi eq̄li. Si. n. ex iſto ferro gn̄etur ignis ſummus: ꝛ ex tāta flāma ſilr̄: tūc in fine fieret ferrū illđ valde maioris q̄titatis q̄ꝫ illa flāma: eo ꝙ nūc eſt mā ferri denſior q̄ꝫ mā flāme: ꝛ tūc eque rara: eo ꝙ in vtroq; tūc eēt ſumma for. ignis: ꝛ in omni pte eq̄li eēt equalr̄ de for.: igit̄ in illa mā que eſt mā ferri eēt plus de for. q̄ꝫ in mā flāme: ꝛ p ꝯn̄s ſi vtraq; for. in vtraq; mā vni. for. foret gn̄ata in illa mā ferri plus eēt de for. q̄ꝫ in mā flāme. Illud ēt ferrū ignitū plus lederet q̄ꝫ flāma eq̄lr̄ h̄ns de for. a: ꝛ h̄ eēt rōne melioris applicaōis: qꝛ in iſto ferro q̄libet pars illi. for. eſt ꝓpinquior paſſo q̄ꝫ in illa flāma: ꝛ ideo forti. ſufficit agere. Sic igit̄ dī penes qđ ſimpl'r attendit̄ po. rei: qꝛ penes multitudinē forme. ¶ Cōtra hāc pōneꝫ arguit̄ iſtertius.

Nunc ḡ opꝫ dicē qualr̄ vna pars iuuat aliā ad agēduꝫ ꝛ qualr̄ ad reſiſtēdū. Eſt. n. dubiū qn̄ aliq̄ pars iuuat aliā ad reſiſtēdū: nunqđ aliqđ agat in ptē quā iuuat vel nō. ꝛ nūqđ totū intenᵐ reſiſtit vel nō: ꝛ tūc q̄ta eſt pars reſiſtēs: ꝛ q̄re magis iᵃ pars reſiſtit q̄ꝫ alia maior: qꝛ nulla vꝫ cā niſi qs dicat ꝙ h̄ eſt: qꝛ ꝯtingit dare aliquā ptēꝫ que ſufficit agē vſq; ad extreᵐ ad qđ applicat̄ agens: ꝛ eſt aliq̄ pars que nō ſufficit agē vſq; ad extreᵐ rōne diſtātie inter ipaꝫ ꝛ extreᵐ. ꝛ ideo talis pars nō ſufficeret attribuē reſiſtētiā accn̄talē illi extre. ¶ Cōtra arᵗ illā rn̄ſionē nō valere: qꝛ det̄ illa pars que attribuit talē reſiſtētiā accn̄taleꝫ q̄ ſit. a. tūc vꝫ ſufficit q̄lꝫ pars. a. agē vſq; ad extreᵐ vel nō. ſi nō: igit̄ p rn̄ſionē nō q̄lꝫ pars illi. tribuet reſiſtētiā accn̄talē ad illđ extreᵐ: ḡ p idē totū: qꝛ aliter ſeq̄ret̄ ꝙ q̄libꝫ pars ad illđ extreᵐ tribuit reſiſtētiā accn̄talē: cui. ſ. ptis eēt aliq̄ pars ipius. a. ꝛ p ꝯn̄s nō ſolū. a. pars. Si dicat̄ alia pars. ſ. ꝙ q̄libet pars. a. ſufficit agere ad illđ extreᵐ: ꝯtra. iſt.ᵉ modice po. eſt aliq̄ pars. a. diſtās ab illo extremo: vt pꝫ. igit̄ nō q̄libet pars. a. ſufficit vſq; ad illđ extreᵐ. ¶ Iteꝫ ſi q̄libet pars. a. ſufficit agere vſq; ad illđ extreᵐ, cū ꝯtingat accipe aliquā ptēꝫ magis diſtātē ab extremo aliq̄ pte. a. maioris po.: ſeq̄t̄ ꝙ aliqua alia pars vltra. a. ſufficeret agere vſq; ad illud extreᵐ: ꝛ p ꝯn̄s nō ſolū. a. pars tribuet reſiſtētiā accn̄talē. ¶ Item argᵗ ꝙ nulla pars tribuat reſiſtētiā accn̄talē: qꝛ ſi ſic: vel aliqđ aget in partē reſiſtētē: vel nō. ſi aliqđ: ꝛ illud eſt qualitas. ¶ Quero igit̄ cui. ſit illa q̄litas vel realis vel nō. ſi ſic: dato ꝙ totū ſit ſūme calm̄: aut agit caliᵗᵉᵐ vel nō. ſi ſic: ſeq̄t̄ ꝙ pars illa imediata agēti erit intēſior q̄ꝫ ſūma: eo ꝙ deducta pte reſidua: illa pars eſſet ſūma. ſi nō aget caliᵗᵉᵐ qualr̄ illa pars pōt tribuē reſiſtentiā accn̄talē pti calide vꝫ ꝙ nullo. Si igit̄ dī ꝙ aget q̄litateꝫ: nullā tn̄ realē: nō vꝫ qualr̄ q̄uis modo ad inductiōeꝫ frigiditatis reſiſtet: eo ꝙ non ꝯriat̄ friditati. ſeq̄t̄ ḡ ꝙ illa pars diſtās nihil aget in partē reſiſtētem: ꝛ per cōſequens non iuuabit partem illam ad reſiſtēdum.

Pro iſta mā dī ꝙ reſiſtētia eſt duplex. ſ. accidētalis ꝛ eēntialis. Reſiſtētia eēntialis eſt in actione h̄ꝫ ꝯrioꝝ adinuicē. Et ſciendū eſt ꝙ illa reſiſtētia accn̄talis eſt reſiſtētia eēntialis: qua vna pars iuuat aliaꝫ ad reſiſtendū: ideo reſiſtētia eēntialis ptis iuuātis dī accidētalis pti que iuuat̄. Et cauſa eſt: qꝛ nō eſt ſibi itrinſeca. Vn̄ ſicut in potētijs actiuis qn̄ aliqđ per ſe certa velociter ageret in aliqđ paſſuꝫ: ꝛ ſibi adderet̄ vnū aliud agens: ita ꝙ actio eius fortificaret̄: ita ꝙ illa duo agerēt velocius q̄ꝫ vnū illoꝝ per ſe, illa po. addita dī accn̄talis reſpectu alterius po.: ſicut eīno in reſiſtētia accn̄tali eſt ꝙ ſi aliqua reſiſtāt fortius q̄ꝫ vnuꝫ illoꝝ per ſe vnū dī iuuamentū alterius reᵃ: ꝛ h̄ accn̄tale. ¶ Et tūc qn̄ querit̄ vtruꝫ pars vna aliqđ agat in aliā rōne cui. actionis alia forti. reſiſtat: dī ꝙ h̄ nō opꝫ. Et tūc qn̄ ꝯcludit̄: igit̄ nō forti. reſiſtit. negat̄ ꝯn̄tia ſicut in exēplo capiat̄ hō fortis qui aliq̄ velocitate pōt trahē nauem: ꝛ vnus puer qui nō ſufficeret trahē per ſe naueꝫ iuuaret ipm̄ fortē hoīem in caſu ad trahēduꝫ rōne cui. nauis velocius moueret̄: ꝛ tn̄ ille puer nihil ageret in illū hoīem. Silr̄ vbi luminoſum ageret in mediuꝫ per appōneꝫ alteri. luminoſi fortificat̄ eius po. ad agēdū: ita ꝙ illa duo p maiorē diſtātiā agerent gradū eq̄leꝫ q̄ꝫ prius ꝛ tn̄ illud luminoſuꝫ adueniēs nihil agit in luminoſuꝫ pᵐ. Et talia multa exēpla pn̄t poni tā de potentijs actiuis q̄ꝫ de paſſiuis. vnde qn̄ aliqđ agit ad trahēdū vel mouendū

Quō vna pars iuuat aliam ad agēdū.

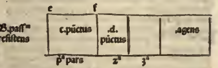
Rñ. Duplex reſiſtentia.

Ad arg.

aliqd appoſito ſibi alio graui tardius pᵐ mouebiť ꝙ̄ pus.
Hinc pendet mag pars iſtius difficultatis. vbi tñ illud addiť in pᵃᵐ reſiſtētiā nihil agit. ¶ Et tūc qñ
dubitať quāta pars reſiſtit: vbi aliqđ agēs agit in aliud ꝑ
q̄litates actiuas ⁊ paſſiuas. dī ſatis rōnabilr ꝙ tota pars
directe appoſita illi agēti: ⁊ etiā q̄libet pars eiꝰ. Et tūc ad
argᵐ qñ ſic arguiť. Aliqua eſt pars eiꝰ que nō ſufficit age-
re vſq3 ad agens: igiť illa pars nō reſiſtit. Negať ꝯñtia: qꝛ
in exēplo ꝑcedēti: ille puer nō ſufficeret trabē nauim per
ſe: ⁊ tñ iuuat illū hoīem ad trahēdū. ¶ Cōtra illā rñſionē
Cōtra arguiť: qꝛ tūc ſequiť ꝙ illud qđ eſt minoris poᵉ ꝙ̄ ſuū cō-
trariū nō ſufficeret agere in ſuū ꝯ̄riū nec eq̄le in ſibi eq̄le.
ꝯñs eſt falſum ⁊ ꝯtra experientiā: qꝛ videmus ꝙ aliqđ cali-
dū modice poᵉ agit in aerem: vel ꝙ vnū frigidū minoris
poᵉ ꝙ̄ ille aer totꝰ agit in aliquā eius ꝑte3. ¶ Idē etiā p3
rōne: ſint. a. ⁊. b. duo ꝯ̄ria eq̄lis poᵉ ⁊ approximenť adinui-
cem: ita ꝙ neutrū ſm illā applicationē3 ſufficiat agere in
aliud: tūc per ꝑdicta. a. poſſet cōdēſari: ita ꝙ eēt meliꝰ ap-
plicatū ad. b. ꝙ̄ ꝑus: ⁊. b. poſſet eē peius applicatū ad reſi-
ſtendū ꝙ̄ ꝑus: ⁊ ſequiť ꝙ. a. ageret in. b. ⁊ eēt eq̄lis poᵉ cu3
eo: ⁊ ſic ſtaret vnu3 minoris poᵉ ꝙ̄ eſt. a. agere in aliquam
ꝑte3. igiť ⁊c̃. ¶ Et ꝙ illud ſequiť ex rñſione arguiť ſic. Si
totū. b. reſiſtat ipſi. a. eo ꝙ vel eſt eo maioris poᵉ vel ei eq̄-
lis: ſeq̄ť ꝙ poᵃ reſiſtiua eſt maior poᵃ actiua vel ſibi eq̄-
lis: igiť iter illa nō poſſet actio ꝑuenire. ¶ Pro 1ᵒ negatur
illud ſeq: imo ꝯcediť oppoſitū illiꝰ ꝯñtis vt argᵐ ꝓbat. Et
ad argᵐ dī ꝙ illud ꝓcederet ſi oēs ꝑtes eq̄les equalr reſi-
ſterēt: vel ſi vnū ſm illā applicatiōe3 eēt eque reſiſtitiuu3
ſicut aliud actiuū: quoꝝ neutrū eſt verū: l3. n. poᵃ. b. ſit ma-
ior poᵃ. a. ſtat tñ etiā applicationē meliorē ipius. a. ad agē-
dū ꝙ̄ eſt. b. ad reſiſtendū. Silr pᵐ illoꝝ eſt falſum: qꝛ non
oēs ꝑtes equales equalr tribuūt de reſiſtētia accñtali. Et
cā eſt: qꝛ vna pars plus diſtat ab agēte ꝙ̄ alia: ideo peius
applicať vna pars ad reſiſtendū ꝙ̄ ſibi equalis ꝓpīgor
agenti: ⁊ ſic nō ꝓcedit argᵐ. ¶ Cōtra rñſione3 illā arguiť
ſic. Si pars remotior minus reſiſteret ꝑte ꝓpingori agēti
eā illiꝰ erit diſtātia: igiť ꝓportionabilr ſicut ꝑtes diſtāt ab
agēte: ita minus ei reſiſtūt. Diuidať ḡ. b. fridū vniforme in
ꝑtes ꝓportionales v̄ſus. a. agens: ⁊ ſequiť ꝙ 2ᵃ pars ꝓpor-
tionalis eſt in duplo minoris reſiſtētie eēntialis ꝙ̄ pᵃ: qꝛ in
duplo minus ꝯtinet de forma ꝙ̄ pᵃ: igiť ſi 2ᵃ pars per tātū
diſtaret ab. a. ſicut pᵃ in duplo minus ſibi reſiſteret: ſ3 nūc
eſt 2ᵃ pars ꝓportionalis in duplo ꝓpinquior agenti ꝙ̄ tūc
eēt. ergo nūc tātū reſiſtit ſicut pᵃ. Prima ꝯñtia p3: eo ꝙ 2ᵃ
pars ꝓporˡⁱˢ nō meliꝰ applicareť ad agēdū ꝙ̄ pᵃ: vt p3. ſe-
quiť igiť ꝙ nūc 2ᵃ pars ꝓportionalis tātū reſiſtit ſicut pᵃ.
⁊ per idē tātū reſiſtit 3ᵃ ſicut 2ᵃ: ⁊ ſic in īfinitū: igiť totū. b.
īfinite reſiſtit ipſi. a. ¶ Uel arguiť ſic. Si 2ᵃ pars ꝓporˡⁱˢ
eēt eque remota ſicut pᵃ ab. a. ⁊ tūc nō in duplo plus reſi-
ſteret pᵃ ꝙ̄ 2ᵃ: qꝛ pᵃ medietas pͥme ꝑtis ꝓportionalis. b. tā-
tū de ſe reſiſteret ſicut tota 2ᵃ pars ꝓportionalis: vocando
pͥmā medietatē ꝓpingorem agēti: ⁊ 2ᵃ medietas illiꝰ pͥme
ꝑtis ꝓportionalis. b. minus reſiſteret ꝙ̄ pᵃ: qꝛ eſſet remo-
tior ab agente. ḡ tūc tota pᵃ pars ꝓportionalis. b. nō in du-
plo plus reſiſteret ꝙ̄ 2ᵃ pars ꝓportionalis eiuſdē. S3 nūc
iſta in duplo plus reſiſtit ꝙ̄ tūc: eo ꝙ nūc in dupᵒ ꝓpingor
eſt agēti ꝙ̄ tūc eēt: igiť nūc plus reſiſtit 2ᵃ pars ꝓportiona-
lis. b. ipſi. a. ꝙ̄ reſiſtit pᵃ pars ꝓportionalis eiuſdē. a. et per
idē plus reſiſtit 3ᵃ pars ꝓportionalis ꝙ̄ 2ᵃ: ⁊ ſic in īfinitu3:
igiť īfinite totū. b. reſiſtet ipſi. a. ſm illā applicatiōe3: igiť
cum. a. nō ſit maioris potētie actiue ꝙ̄ īfinite: ſequiť ꝙ. a.
nō ſufficeret agere in. b. ¶ Ideo forte dī ꝙ nō ꝓportiona-
biliter ſicut vna pars plus alia ꝑte equali diſtat ab agēte
ſm extremū ꝓpinquiꝰ: ita minus reſiſtat ꝙ̄ pars ꝓpin-
quior agēti: qꝛ tūc ſequereť ꝙ infinite plus reſiſteret me-
dietas īmediata agēti ꝙ̄ medietas remota: ⁊ per ꝯſequēs
infinite modice reſiſteret medietas remota diſtās ab agē-
te vł īfinite reſiſteret alia medietas. Prima pars deſtruit
reſiſtentiā accñtale3: eo ꝙ nulla pars tūc reſiſteret que di-
ſtaret tūc ab agente: ⁊ 2ᵃ pars deſtruit oēm actione3: ſi. n.
īfinite reſiſteret pars īmediata agenti nihil ibi poſſet inci-
pere agere: ideo illud nō pōt poni. ¶ S3 dī ꝙ ſicut plus
diſtat ab agente ſm extremu3 remotius ꝙ̄ alia pars ſibi
eq̄lis ſm extremū ſuū remotius: ita minus reſiſtit. ¶ Cō-
tra. tūc ſequiť vt ꝑus dī de. b. ꝙ 2ᵃ pars ꝓportionalis tm̄
reſiſtit ſicut pᵃ: qꝛ extremu3 eius remotiꝰ in duplo minus
diſtat ab agente ꝙ̄ extremū pͥme ꝑtis ꝓportionalis remo-
tius: vt notū eſt. ⁊ ſic 3ᵃ tm̄ reſiſteret ſicut 2ᵃ: ⁊ ſic in infini-
tū: igiť īfinite reſiſtet totū illi agēti: ⁊ per ꝯñs nō eſt actio.
¶ Itē ſic: ſit. b. vt ꝑus vniforme: ita ꝙ q̄libet pars equa-
lis equalr habeat de forma: ⁊ ſit. a. agens īmediatū ipſi. b.
⁊ ſequiť iuxta rñſione3 ꝙ in duplo plus reſiſtet pᵃ medie-
tas. ſ. ꝓpinquior ꝙ̄ alia medietas: eo ꝙ extremū remotiꝰ
illius medietatis eſt in duplo ꝓpinquius agenti ꝙ̄ eſt extre-
mū remotius alteriꝰ medietatis. Sed h̄ eſt falſum iuxta
eāde3 rñſionē. Diuidať enim totū in 4ᵒʳ quartas: ⁊ voceť
illa 4ᵃ que eſt ꝓpinquior agenti pͥma 4ᵃ: ⁊ arguiť ſic per
hāc rñſione3 in duplo plus reſiſtit 2ᵃ 4ᵃ ꝙ̄ vltima: vt cō-
ſtat: ⁊ pᵃ 4ᵃ magis ꝙ̄ in duplo plus reſiſtit ꝙ̄ 3ᵃ 4ᵃ vt cō-
ſtat: eo ꝙ pᵃ 4ᵃ ſm extreᵐ remotiꝰ diſtat ab agēte per vnā
4ᵃᵐ totius tm̄: ⁊ 3ᵃ quarta diſtat ab agente ſm extremu3
remotius per tres quartas: vt p3. igitur pᵃ 4ᵃ magis ꝙ̄ in
duplo plus reſiſtit ꝙ̄ 3ᵃ quarta: et 2ᵃ 4ᵃ in duplo plus ꝙ̄
4ᵃ vltima: igiť pͥma medietas. b. ſ. ꝓpinquior ipſi. a. ma-
gis ꝙ̄ in duplo plus reſiſtit ꝙ̄ 2ᵃ medietas: igiť rñſio fal-
ſa. ꝯñtia ꝑcedens tenet: eo ꝙ pᵃ medietas eſt cōpoſita ex
pᵃ 4ᵃ ⁊ 2ᵃ: ⁊ alia medietas ex 3ᵃ ⁊ 4ᵃ quarta. ¶ Ideo for-
te diciť hāc reſpōſionē hēe veritatē de ꝑtibus medietatis
agēti ⁊ nō de ꝑtibus: quarū aliqua eſt īmediata agenti: et
alia mediata. ¶ Cōtra hāc reſpōſionē arguiť ipam iprо-
bādo: qꝛ iuxta illā 2ᵃ quarta in duplo plus ꝯferret ſeu re-
ſiſteret agenti ꝙ̄ vltima quarta: vt notū eſt. Sed h̄ eſt fal-
ſum: qꝛ diuidať vtraq3 illarū quartarū in duas medieta-
tes: ⁊ voceť vtriuſq3 medietatis pᵃ illa que eſt ꝓpinquior
agenti: ⁊ arguit ſic per hāc reſpōſionem. ſcđa medietas il-
lius ſcđe quarte in duplo plus reſiſtit ꝙ̄ 2ᵃ medietas illiꝰ
vltime quarte: vt p3. ⁊ gradus quo reſiſtit pͥma medietas
ſcđe quarte eſt plus ꝙ̄ duplus ad gradū quo reſiſtit pͥma
medietas vltime quarte: igitur 2ᵃ 4ᵃ cōpoſita ex ſuis me-
dietatibꝰ reſiſtet gradu plus ꝙ̄ duplo ad gradū quo reſi-
ſtet vltima 4ᵃ. ꝯñtia tenet vt ꝑus. ⁊ minor ſic arguiť. Pri-
ma medietas ſcđe quarte totiꝰ diſtat ſm extremū remo-
tius ab agente per 4ᵃᵐ ⁊ ſemiquartā: vt cōſtat. Et pᵃ me-
dietas vltime q̄rte diſtat ab agente per tres q̄rtas ⁊ ſemi-
quartā: vt ꝯſtat. igiť diſtātia iter extremu3 remotiꝰ pᵉ me-
dietatis vltime q̄rte ⁊ agēs erit plus ꝙ̄ dupla ad diſtātiā
iter extremum remotius pͥme medietatis ſcđe 4ᵉ ⁊ illud
agēs: ⁊ per ꝯñs vt ꝑus 2ᵃ q̄rta nō ꝑciſe in duplo plus reſi-
ſtit ꝙ̄ vltima quarta: ⁊ ſi ſic illa rñſio eſſet falſa. ¶ Ideo
forte dī ꝙ nō ſicut vna pars alia ſibi eq̄li plus ſm ꝓpin-
quius extremū vel ſm remotiꝰ diſtat ab agēte: ita minus
reſiſtit: ſ3 ſicut tota diſtātia cathetˢ vnius ꝑtis recedit ma-
gis ab agēte ꝙ̄ tota diſtātia alteriꝰ: ita minus reſiſtit. vt ſi-
gnenť duo pedalia: quoꝝ vnu3 diſtat ab agēte ꝑ pedale: ⁊
reliquu3 per bipedale. ⁊ ſic h̄ ſm extrema appropinqrа
agēti: tūc ſeq̄ť ꝙ extremū remotius illiꝰ pedalis remotio-
ris qđ ſit. d. nō in duplo plus diſtat ab agēte ꝙ̄ extreᵐ re-
motius alteriꝰ qđ ſit. c. extremū. n. remotiꝰ. c. diſtat ab agē-
te per bipedale: vt p3. ⁊ extremū remotius. d. per tripeda-
le tm̄: ⁊ ſic de alijs pūctis ītrinſecis. d. p3 ꝙ nullus illoru3
per induplo plus diſtat ab agente ꝙ̄ pūctus corrñdēs. c. ⁊.

ideo nō

ideo nō in duplo minus reſiſtit.d.q̄3.c. ſed quilꝫ eius pun-
ctus intrinſecꝰ diſtat ab agēte per diſtātiā plus q̄3 ſexqual-
terā ad diſtātiā puncti correſpōdentis.c.vt pꝫ.extremū.n.re-
motius.d.in ſexqaltero plus diſtat ab agēte q̄3 extremuꝫ
remotius.c.vt notū eſt.ideo nō ꝓciſe in ſexqaltero minus
reſiſtit.d.q̄3.c.nec in duplo minꝰ:ſꝫ aliquo gradu intrinſeco
inter ſexqalterū ⁊ ſubduplū:⁊ ſic penes diſtātiam totius
caſbeᵉᶜ.⁊ iſto mō attēdenda eſt maioritas ⁊ minoritas re-
ſiſtentie ⁊c̄. ¶ Contra hāc riſionē arᶠ. Qꝛ ſi ſit mediū vni-
forme ꝙ illud infinite reſiſtit ſm extremū eiꝰ:loquēdo de
vniformi vt ꝑusꝙ in oi pte eq̄li ſit equalr ð forᵉ: qꝛ ſi nō:
ſit.b.vniforme ⁊.a.agens applicatuꝫ ad extremū.b.⁊ diui-
daſ totū in ptes ꝓporˡᶜˢ verſus.a.quo poſito reſiſtētia ſcd̄e
ptis ꝓporˡⁱˢ eſſentialis eſt in duplo minor reſiſtētia eſſen-
tiali pme ptis ꝓportionalis:eo ꝙ pma pars ꝓportionalis
in duplo plus hꝫ de forᵉ q̄3 2ᵃ.⁊ quilꝫ punctꝰ ſcd̄e ptis pro-
portionalis eſt in duplo ꝓpinquior.a.q̄3 eſt punctꝰ corre-
ſpōdens pme pti ꝓportiōali: igiſ tātū reſiſtit ſcd̄a ps ꝓporˡⁱˢ
ſicut pᵃ. Añs pꝫ:qꝛ ſi nō ſit.c. ille punctꝰ pme ptis propor-
tionalis:⁊.d.punctꝰ ſibi correſpōdens ſcd̄e ptis ꝓportionalis:
⁊ capiaſ extremū pme ptis ꝓporˡⁱˢ ab agente remotius:⁊
ſit.e.⁊ ſit extremū remotꝰ ſcd̄e partis ꝓportionalis.f.tunc
arguiſ ſic. Diſtātia iter.c.⁊.a.ſe habet ad diſtantiā inter.e.
⁊.a.in eq̄li ꝓporˡᵉ ſicᷓ diſtātia iter.d.⁊.a.ſe hꝫ ad diſtātiā.f.
⁊.a.eo ꝙ illa pūcta ſunt correſpōdētia:igiſ ꝑmutādo ſicᷓ diſtā-
tia.e.ad.a. ſe hꝫ ad diſtātiā iter.f.⁊.a.ita ſe hꝫ diſtātia.c.ad
a.ad diſtātiā.d.ad.a.⁊ pᵃ ꝓporᵉ eſt dupla:igiſ diſtātia.c.ad
a.eſt dupla ad diſtantiam.d.ad.a.qð fuit probandum.



¶ Uel facilius arguiſ ſic. Sit vnū mobile ad.e.punctū:⁊
aliud ad.f.punctū ⁊ moueanſ vniforʳ pertrāſeundo pmā
⁊ ſcd̄am ptem ꝓporˡᶜᵐ in pte equali: ⁊ ſequiſ ꝙ illud mo-
bile qð mouebiſ ſupra pmā ptes ꝓporˡᶜᵐ in tpe equali in
duplo velocꝰ mouebiſ ꝯtinue q̄3 illud qð mouebiſ ſupra
ſcd̄aꝫ ptem ꝓportionaleꝫ: qꝛ pertrāſibit in duplo plus in
eq̄li tpe:⁊ nūc in duplo plus diſtat illud ab.a.q̄3 aliud:igiſ
cōtinue in duplo plus diſtabit. Si.n.vna diſtātia ſit dupla
ad aliā ⁊ in duplo velocꝰ pertrāſiſ vna q̄3 alia: ſequiſ ꝙ
reſiduaꝝ diſtātiaꝝ nō pertrāſitaꝝ cōtinue manebit vna
dupla ad aliā:cū igiſ illa mobilia ꝯtinue erunt ad puncta
correſpondentia:ſequiſ ꝙ quilꝫ punctus pme ptis ꝓpor-
tionalis in duplo plus diſtat ab.a. q̄3 punctus correſpōdens
ſcd̄e parti ꝓportiōali:⁊ per ꝯñs vt prius:ſequiſ ꝙ tātū re-
ſiſtet pars ſcd̄a ꝓportiōalis ſicut pma. Iſta ꝯña ꝓbaſ ſic.
Sit.c.vnū tāte q̄ntitatis ſicut eſt pma pars ꝓportiōalis.b.
eq̄lis reſiſtētie eſſentialis ſicut eſt 2ᵃ pars ꝓporˡⁱˢ:ita ꝙ in
oi pte.c.ſit equalr de forᵉ ſicut in pte correſpōdente illiꝰ ſcd̄e
ptis ꝓporˡⁱˢ:⁊ diſtet.c.equalr ab.a.agēte ſicut pᵃ ps ꝓpor-
tionalis.b.ſm oia puncta correſpōdētia ⁊ arguiſ ſic. Eq̄ hn̄
ꝓciſe applicaſ.c.ad.a.ſicut pᵃ pars ꝓporˡⁱˢ.b.⁊ eſt in duplo
minoris reſiſtētie q̄3 pᵃ ps ꝓporˡⁱˢ.b.igiſ in duplo minᵉ re-
ſiſtit.c.ipſi.a.q̄3 pᵃ pars ꝓporˡⁱˢ.b.⁊ ſcd̄a pars ꝓporˡⁱˢ.b.in
duplo plus reſiſtit q̄3.c.eo ꝙ eſt eq̄lis reſiſtētie cuꝫ.c.⁊ ſm
ſe totū eſt in duᵒ ꝓpinquior.a.q̄3.c.igiſ tantū reſiſtit ipſi.a.
ſcd̄a pars ꝓporˡⁱˢ.b.ſicut pᵃ. ꝯñe cū antecedētibꝰ patent:⁊
per ideꝫ tantū reſiſtent 3ᵃ pars ꝓporˡⁱˢ ſicut 2ᵃ:⁊ ſic in infi-
nitū:igiſ in infinitū reſiſtunt oēs ille ptes:qꝛ deducta pma
parte ꝓportionali ſcd̄a reſiſtet eodeꝫ gradu a 3ᵃ eodē gra-
du de ſe:⁊ ſic in infinitū:igiſ infinite oēs eius partes reſi-
ſtunt.ergo ſequiſ intentum.

Pro iſtis diᶜ ꝙ ptes remotiores minus reſiſtūt q̄3 Nota ꝑ
ptes ꝓpinquiores:⁊ h̄ ꝑꝑ peioreꝫ applica-
tionē ad agēs. Et tūc qñ ꝯcludiſ:igiſ ſicᷓ ptes plus diſtāt ſic
minᵒ reſiſtūt q̄3 ptes ꝯſiles ꝓpinquiores.negaſ ꝯña:qꝛ nō
valet de poᵃ accñtali qualrcūqꝫ loq̄mur de ꝓpinquitate to-
tius ſiue ð ꝓpinqtate alteriꝰ extremi ſicᷓ ſufficiēter in argu-
mentis ꝓpoſitis eſt argutū. Item aliud exᵐ dato lumīoſo
approximato ad extreᵐ medij vniforʳ diſpoſiti ad ſuſce-
ptionē luminis:tūc gᵐ remiſſiorē luminis aget ad pūcta remo-
tiora q̄3 ad pūcta ꝓpinquiora. Et h̄ ꝑꝑ diſtātiā maiorē ⁊ pe-
ioreꝫ:applicatiōeꝫ:nō tn̄ ꝓportionabilr ſicᷓ plus diſtat ab
vno pūcto q̄3 ab alio:ita gᵐ remiſſiorē luminis ibi aget:qꝛ
tūc ad nullū pūctū datū agēt gᵐ aliquē: qꝛ dato pūcto aliq̄
aliqs punctᵒ eſt in duᵒ ꝓpinquior agēti q̄3 ille punctꝰ ⁊ alius
in q̄druplo ꝓpinquior ⁊ ſic in ifiᵐ:igiſ ifinite intēſiorem gᵐ
ageret ad aliquē pūctū q̄3 ad illuꝫ datū. cū igiſ nō aget gᵐ
infiᵐ ad aliquē punctū:ſeqꝰ ꝙ ad illū datū nulluꝫ gᵐ aget.
ꝯñs ſꝫ.de iſto videbiſ pleniꝰ vbi tāgeſ de lumioſis.mul-
ta alia experimēta de h̄ poterūt allegari. ¶ Itē notādū eſt 2ᵃ
qualr pars remota iuuat aliā ad reſiſtēdum:ad qð arguiſ
ſic. Si agēs aliqð inducat fridiratē in aliquā ptē calidi:ps
reſidua calida nitiſ illā fridiratē corrūpere: que illi frido
ꝯtraſ:ſed qcqd aliqd corrūpere intēdit:⁊ hoc nālr ꝓllō idē
ad eiꝰ iductionē nitiſ reſiſtere.ſi.n.nō nāliter reſiſteret ad
eiꝰ inductionē nō vꝫ rōnabile qn ſatis poſſet ſtare cū frigi-
ditate ⁊ nō nālr niteretſ eā corrūpere.cum igiſ ꝯñs ſit fal-
ſum.ſ.ꝙ caliditas in parte reſidua nō nitiſ frigiditatē in-
ductā corrūpere.pꝫ igiſ ꝙ iſto mō reſiſtit pars illa in qua
nō eſt actio. ¶ Itē eſt notādū ꝙ vbicūqꝫ agens tale non 3ᵃ
cognitiuū applicaſ ad ſuū ꝯtriū ipſuꝫ aget ſm vltimū ſue
potētie cū tali applicatiōe: ⁊ ſuum ꝯtriuꝫ ſibi reſiſtit tantū
quātū cū applicatione tali ſufficit reſiſtere. ¶ Hic tn̄ eſt 4ᵃ
notādū ꝙ nihil pōt ſm vltimū ſue potētie agere niſi fo-
ret immixto:quia nō pōt applicari ita bn̄ ad agendū quin
melius poſſit applicari : quia ſemꝑ aliqua pars diſtabit a
paſſo:ideo poterit melius applicari ſicut patet per cōden-
ſationem:igiſ plus pōt hꝫ pars coagere q̄3 nunc coageret
ſicut manifeſte pꝫ: ⁊ ſic eſt de reſiſtētia. Si tn̄ ex hoc con-
cludiſ ꝙ ifinita velocitate pōt agere cū certa reſiᵃ.negaſ
ꝯñtia:qꝛ capiaſ gradus quo reſiſtit reſiſtētia ſm ptem cui
applicaſ agēs:tūc ſi per imaginationē totū ꝯdenſareſ:ita
ꝙ infinite modice fieret q̄ntitatis manēte forᵃ tota adhuc
eſſet ſoluꝫ finite potētie:⁊ tūc eſſet optime applicatum ad
illaꝫ reſiſtentiā:⁊ nunc illa reſiſtētia certo gradu reſiſteret:
igiſ tūc eſſet actio a ꝓportione finita tn̄ : ſed nūc non pōt
tanta velocitate agere : ideo eſt illa minima velocitas ſm
quā illud agēs in ideꝫ paſſuꝫ agere nō pōt vt ſatis cōſtat.
¶ Itē eſt notādū ꝙ ſimplex ſm punctū eius mediū ma-
xime reſiſtit:⁊ hoc vbi ipſuꝫ eēt vniforme. Et pmo arguiſ
ꝙ magis reſiſtit ad mediū punctū q̄3 ad extremū:qꝛ ſit.b.
tale vniforme ⁊ dcᷓ vnum eiꝰ remotius extremū ⁊ appli-
ceſ.a.agens.ad ideꝫ extremū. Et arguiſ ſic. Si.a.ad pun-
ctuꝫ mediuꝫ applicareſ reſiſteret equalr iᵃ medietas que
nūc eſt immediata.a.ſicut nūc reſiſtit:eo ꝙ tunc quilꝫ pūctꝰ
illius equaliter diſtaret ab.a.ſicut nūc diſtat:⁊ alia medie-
tas.a.tunc plus reſiſtet q̄3 nūc reſiſtat:eo ꝙ tunc meliꝰ ap-
plicareſ ad.a.q̄3 nūc appliceſ ad ideꝫ:ergo tūc.b. plus re-
ſiſteret.a.q̄3 nūc reſiſtit.a.applicato ad alterū extremum.
Conſimilr ꝓbatur ꝙ ſi.a.appliceſ ad punctū terminātē
vnam quartā ꝙ minus reſiſteret.b.q̄3 ſi.a.eſſet ad punctū
mediuꝫ. Sit eniꝫ.c.vnū eius extremū ⁊ voceſ quarta ter-
minata ad.c.pᵃ 4ᵃ ad cuius extremū poniſ.a.ſ.ad pncipiū
ſcd̄e quarte ⁊ arguiſ ſic. Tantū reſiſtūt nūc pma quarta ⁊

ſcđa.b.ſicut reſiſterent 2ᵃ ⁊ 3ᵃ 4.ᵃ.a.applicato ad punctū medium:q2 iˢ quarte nūc applicanť equalr ad.a.ſicut tūc iˢ quarte ſtrinſece applicarenť ad.a.vt pʒ.ſed 3ᵃ 4ᵃ nūc eq̄liter reſiſtit ſicut nūc reſiſteret pᵃ:eo q̄ nūc equebn̄ applicať ad.a.ſic nūc applicareť pᵃ vt notū eſt:ſʒ 4.ᵃ q̄rta nūc minus reſiſtit q̄ nūc reſiſteret:eo q̄ nūc peius applicareť ad a.q̄ tunc applicareť:q2 nūc diſtat ab.a.per duas quartas tot⁹:⁊ nūc diſtaret ab eo per vnā q̄rtā tm̄:igiť ſi.a.applicareť ad punctū mediū.b.forti⁹ reſiſteret ſibi q̄ nūc reſiſtet: ⁊ ſic de oīb⁹ alijs pūctis eſt arguēdūʒ q̄ ad oīa pūcta pter pūctū mediū min⁹ reſiſtit q̄ ad mediū: ſi ad iˢ pūcta agēs aliqđ applicareť. ❡ Itē eſt notādū q̄ oē agēs nāle actiuū ⁊ paſſiuū tm̄:eſt actiuū ſicut reſiſtiuū:q2 tātū nitiť omne corp⁹ nāle ꝯſeruare ſeipm̄ ſicut aliud corrūpere. ❡ Itē ſi aliqđ nitiť aliquā q̄litatē corrūpere/hoc erit ꝓp aliquā cōtrarietatē inter illa.ſed per eādeʒ ꝯtrietateʒ nitiť ꝓhibere ei⁹ ꝓductionē:igiť tātū nālr reſiſtit ad illi⁹ q̄n̄ᵗⁱᵗ inductionem q̄ſtū iuuat ad ei⁹ corruptionē. ❡ Iteʒ ſi nō ſit tātū reſiſtiuū ſicut actiuū:ſeq̄ť q̄ vnū ꝯtriū poſſʒ aſſimilare ſibi aliud ⁊ cōʒ ſm̄ applicationē illoꝝ duoꝝ:dū tn̄ eſſent eq̄lis potētie.a.calm̄.b.fridum:ſit.n.poᵃ vtriuſq3 actiua duᵃ ad reſiᵘᵃᵐ ſm̄ certā applicationē:g̃ vtrūq3 in reliquū eq̄li velocitate aget.ſ.ex ꝓporᵗᵉ dupla:g̃ vtrūq3 reliquū aſſimilabit:q2 ſemꝑ manebit hꝫ ꝓportio in vtroq3:q2 nō eſt maior rō q̄re aliqđ eſt in duplo magis actiuū q̄ reſiſtiuum: qn̄ qđlʒ ſit in duplo magis actiuū q̄ reſiſtiuū.ſed ꝯñs eſt falſuʒ.Similr nō eſt maior rō q̄re magis aliqđ eſt magis actiuū q̄ reſiſtiuū in duplo qn̄ qđlʒ in q̄druplo ſit magis actiuū q̄ reſiſtiuū ⁊ ſic deinceps:igiť in infinitū eſt actiuū vel infinite modice eſt reſiſtiuū. ❡ Iteʒ aliter ſequiť q̄ ideʒ calefit ſimul ⁊ frigefit:vt ſi vnū ſit eq̄lr hñs de calitate ſicut de friditate:tūc ſi calitas ſit magis actiua q̄ reſiſtiua ⁊ calitas ꝑciſe eſt tātuʒ reſiſtiua ſicut friditas:igiť nūc friditas eſt reſiſtᵘᵃ min⁹ q̄ calitas eſt actiua: ⁊ ꝑ ꝯñs per calitateʒ dñať ſup reſiſtentiā ꝑ friditatē: ⁊ ſic totū caleſit oio ⁊c̄.Et ꝯſilr arguiť q̄ frigeſit.Conſilr pōt argui q̄ ideʒ ſimul aſcēdat ⁊ deſcēdat.ſ.tale eq̄lr cōpoſitū ex g̃ui ⁊ leui.Similr vbi aliqđ agit in aliud: ipm̄ agit per formā ei⁹ cuʒ certa applicatiōe ⁊ ꝑ eādeʒ formā alij reſiſtet:igiť cum iˢ forᵃ nō ſit cognoſcitiua tātū reſiſtet iˢ forᵃ cum illa applicatiōe ſicut ageret ſi eſſet cum ſili applicatiōe:eo q̄ actio per totā formā fit ſic applicatā ⁊ etiā reſiˢ.

Inť vniformia ſʒ eaſdē qualitates nō poteſt eſſe reactio.

Ex iſtis etiā cōcludiť q̄ inter vniformia ſm̄ eaſdem qualitates nō pōt eſſe actio cum reactiōe ſic intelligēdo q̄ vnū agat in reliquū per vnā q̄litatem ⁊ patiať ab aᵒ per q̄litateʒ ꝯtriā vt q̄ vnū calefaciat aliud ⁊ cōʒ ab illo frigefiat:⁊ hoc ſiue fuerit eq̄lis potētie ſiue ineq̄lis. ga ſi ſic:ſit illud.a.calm̄ vniforme ⁊.b.frigiduʒ vniforme. ⁊ arguiť ſic.Si.a.ſit eque actiuū cuʒ illa applicatiōe ſicut b.eſt actiuū:⁊ vtrūq3 eſt ꝑciſe eque actiuū cum iſta applicatiōe ſicut reſiſtiuū:pʒ q̄.b.cū iſta applicatiōe eſt tātū reſiſtiuū ipſi.a.ſicut.a.eſt actiuū:⁊ ſi ſic.a.cū illa applicatione nō aget nec ſufficit agere in.b.nec.b.in.a.ꝓpter eādē rōneʒ.Si.a.ſit magis actiuū cū iſta applicatione q̄.b.⁊.a. eſt eque reſiſtiuū ꝑciſe ſicut actiuū per ꝓpͥmū:g̃.a.cum iſta applicatiōe eſt magis reſiſtiuū q̄.b.eſt actiuū.⁊ hoc ſʒ ſuā calitatē.⁊ ꝑ ꝯñs.b.nō ſufficiet agere in.a. ⁊ ſi ſic nō erit reactio. ❡ Et nota q̄ hic nō ſoluʒ loquēduʒ eſt đ vniformi quo ad intenſionē ſed etiā quo ad formā cui⁹ quelʒ pars eq̄lis eq̄lr ꝯtinet đ forma. ❡ Ubi tn̄ vtrūq3 eſt vniforme ſtat vnū agere ſm̄ vnā q̄litateʒ ⁊ aliud reagere ſm̄ aliā q̄litatē:vt dato vno mixto ex igne ⁊ aqua vniformi:⁊ alio ex aqua ⁊ aere:ſtat vnū illoꝝ agere in reliquū ſm̄ ſuā caliditatē que eſt ſumma corrūpendo friditatē ei⁹ remiſſam ad nō gradū:⁊ ecōtra aliud ſm̄ ei⁹ humiditatē ſūmā agere in reliquū corrūpendo ſiccitatē remiſſaʒ ad nō graduʒ:⁊ ſic nō eſt incōueniēs reactionē eſſe nec in ſe includit aliquā difficultatē.Et tūc di q̄ illis ſic adiuuiceʒ applicatis in illis nō ceſſabit reactio anteq̄ aer ſumm⁹ in vtroq3 gn̄eť:⁊ hoc ſi ſit tāta ꝓporᵒ poᵉ calitatis vni⁹ ad friditateʒ alteri⁹:ſicut eōʒ eſt ꝓportio hūiditatis vnius ad ſiccitateʒ alteri⁹:ita q̄ ille q̄litates.ſ.ſiccitas ⁊ friditas eq̄lr diſtent a nō gradu:q2 ſi ꝓportio nō fuerit eq̄lis:aut vbi qualitates ineq̄lr diſtent a non gradu/reactio durat quouſq3 ex vno genereť ſumm⁹ aer:⁊ illud poſtea ꝯtinuabit actionē ſuam quouſq3 ex alio gn̄eť aer ſumm⁹ ſi aliūde nō fuerit ipedimentū:⁊ ſic nō ceſſabit reactio ꝓp ſilitudinē ſm̄ extrema approximata vt ꝑdictū fuit:q2 tūc nunq̄ poſſʒ vnū ſūmū aſſimilare aliud ſummū ſibi ꝯtriū:q2 cui⁹ inducet q̄litateʒ ei⁹ ſūmā ad extremū ſibi imediatū q̄ ad pūcta ītrinſeca. ❡ Itē inter difformia pōt eē actio ⁊ reactio ſicut ſi ꝯtingit aliqđ ita diffoꝛᵉ eē q̄ vnū multo minoris poᵉ q̄ eſt ipſum applicatū ad ꝑtē aliquā.ſ.debileʒ illi⁹ rōne diſtātie partis reſidue ab iᵃ ꝑte ſiue ab agēte in ipm̄ agat ſicut ex ꝑcedentib⁹ declarať:nō ſic itelligēdo q̄ ſint due ꝑtes imeᵗᵉ:ita q̄ per vnā ſit actio:⁊ q̄ iᵃ reagit:ſed ſic imaginādo q̄ ſint.a. ⁊.b.duo ꝯtria:vnū calidūʒ.ſ.a.⁊.b.frigiduʒ:⁊ ſit pᵃ 3ᵃ.a.magne poᵉ:⁊ 2ᵃ modice:⁊ 3ᵃ magne poᵉ: ⁊ ſit ecōtra de.b.ſ.pᵃ ei⁹ 3ᵃ modice poᵉ:ita q̄.a.ſm̄ ei⁹ pᵃᵐ 3ᵃᵐ dñeť ſupra pmaʒ terciā.b.⁊ 2ᵃ ei⁹ 3ᵃ ſit magne poᵉ:ita q̄ ſm̄ illaʒ ſufficit agē in 2ᵃᵐ 3ᵃᵐ.a.⁊ ſit 3ᵃ tertia.b.modice poᵉ:ita q̄ vltᵃ 3ᵃ.a.ſufficiat agē i illā ſic eſt ſatis poſſē:q̄ poſito.a.ſʒ aliquā ei⁹ ꝑteʒ in.b.aget:⁊ ſm̄ aliquā patieť ab eodeʒ.b.nō tn̄ patieť ſm̄ ꝑtē illā ꝑ quā imeᵗᵉ aget:⁊ ſic nō eſt difficultas in iſta mā. Iuxta h̄ ꝯcedēduʒ eſt reactionē eē poſſēʒ tam iter eq̄lia q̄ inter ineq̄lia per q̄litates actiuas ⁊ paſſiuas ⁊c̄.

Agēs nāle tantum eſt actiuū q̄tum reſiſtiuū.

Per iſtas ſoluūtur oīa arᵗᵃ ſcā in iᵃ mā. Pꝛīa.n.rō ꝓbat ſoluʒ q̄ reactio pōt eē ſm̄ q̄litates diſpatas:qđ nō eſt icōueniēs/hita poſſiᵗᵉ caſus ibi poſiti.ſ. q̄.a.ignis pur⁹ dñeť ſm̄ calitatē ſupra friditatē.d. aque:⁊ ſm̄ ſiccitatē ſit in ſubdñio:lʒ tn̄ h̄ forte de puris ſit ipoſſē: de mixtis tn̄ ſatis eſt verū q̄ ſm̄ vnā q̄litatē ⁊ ſm̄ reliquā eſt in ſubdñio vt ꝑdictū eſt. ❡ Ad ꝑdicta experimēta ibi allata:⁊ ꝑmo ad pᵐ pōt dici multiplr. Pꝛio.ſ. q̄ illud ferruʒ ignitū nō eſt calm̄ ſʒ friduʒ ſicut appʒ:eo q̄ lʒ in loco quodāmō calō poneret ei⁹ calitas remittereť:qđ nō foret niſi eēt dñiuʒ friditatis itriſece ſup calitatē: ⁊ tūc pōt dici q̄ iſta friditas intriſeca remittit calitatē ei⁹ ꝓpriā: ⁊ ſʒ ei⁹ calitatē vna cū calitate aeris circūſtātis igredientis cū illo ferro in aquā calefacit illā aquā: ⁊ ſic nō eſt reactio ꝓprie niſi quo ad ſenſuʒ tm̄. ❡ Alr pōt dici admittēdo q̄ ferrū ſit calm̄:⁊ tūc di q̄ mā aeris eſt inflāmata ingrediēs cum ferro in aquā:cui⁹ ꝑtes eo q̄ leues ſunt appetūt aſcendere verſus ſurſuʒ ⁊ aſcēdunt:⁊ ſic q̄diu manēt ꝑtes illi⁹ aeris in aq̄ appet iˢ aq̄ cala:⁊ tn̄ in rei veritate iˢ aq̄ nō eſt calida: ⁊ ſic nō agit ferrum in aquā. Tertio pōt dici ⁊ meli⁹ q̄ in ferro ⁊ in oī tali mixto ſunt pori repleti aere ſiue vapore ſubtili q ab agēte calido ſuſcipiūt actionē ⁊ ſit exhalatio meᵗᵉ vapore ſubtili ſic ignito ⁊ calefacto:⁊ talis aer vel vapor exhalās frigefit cū ferrū pōiť in aquā:⁊ ſic dicim⁹ totū repati qđ eſt flʒ. ſʒ ꝑs dēſa ⁊ magne poᵉ nō repatiť ſm̄ ꝑteʒ aliquā ſed agit ſm̄ ꝑtē denſaʒ:⁊ patiť ſm̄ ꝑtem rarā ꝓpter eius difformitatē:nō tn̄ totū eſt magis actiuū q̄ reſiduū:q2 ſm̄ illaʒ ꝑtem rarā ſm̄ quā patiť agens min⁹ eſt actiuū q̄ ſm̄ ꝑtem denſaʒ maioris potētie ſm̄ quā agit in paſſum ⁊ non repatiť ſm̄ eā.Similr tot ſunt pori imixtis inſenſibilr diſtātes qđ dicim⁹ per totā eſſe reactioneʒ ꝓp hoc q̄ exhalatio totā ſupficieʒ circūdat: ⁊ ſic ex oī ꝑte vapor calidus igrediť in poros carnis in q̄ eſt neru⁹ tact⁹:q nerui de facili trāſmutantur:⁊ ſic ſentimus. vnde per hoc

Ad argumēta ꝓbātia reactionē poſſibilem.

Nota hoc q̄ hʒ magnā difficultatē in via Ariſ.

dicit̄ q̄ ratione difformitatis in ferro ⁊ in aqua mixta ſm
aliquā partem pōt eſſe actio ⁊ ſm aliquam reactio vt di/
ctum eſt. Nec pōt aliq̄s vere experiri ibi eſſe actionē per
totū: nec q̄ hꝰ mixta ſunt vniformia. ❡ Sed ſi forte arg̃
q̄ aliq̄ ps paſſi eſt ſm quā eſt actio ipſius agētis ⁊ eꝯ̄: ⁊ ita
iſta ps agit in ptē imediatā illiꝰ agētis: h̄ dꝫ negari vt pre/
dicit̄. ❡ Pro 2ᵒ experimēto dī q̄ in aq̄ cala eſt multa fridi
taſque cuꝫ friditate iducta per aquā fridaꝫ caliditatē illiꝰ
aque remittit: ⁊ ſic q̄ aq̄ īfuſa nō remittit totā caliditatē illā
ſed diuidit̄ in ptes multas ⁊ ꝯiungit̄ cū ptibꝰ aque calide:
⁊ ſic tota aq̄ ꝯmixta fit fridior q̄̄ pmo erat pᵒ. Uel pōt cō
cedi q̄ aq̄ īfuſa remittit caliditatē aque ꝓhabite ſꝫ aliquas
ptes: ⁊ hec calefit ſm aliquas ptes nō tñ per ptes ꝑ quas
īmeᵗᵉ agit. Uel ſi per totā illaꝫ aquā ꝓhabitā fit actio ꝓue
niens ab aq̄ frida pōt dici q̄ illa aq̄ infuſa nō ſtatiꝫ calefit
ab aq̄ cala: ſed diuidit̄ in ꝑuas ptes: rōne cuiꝰ eius friditas
nō pōt bñ ſentiri: ⁊ ſic ad ſenſuꝫ appꝫ illa aq̄ cala que tñ
in re nō eſt calida. ❡ Ad 3ᵐ experimētuꝫ dī q̄ aer in ſinu
rōne corpoꝝ calidoꝝ a corꝑe hūano diſſolutoꝝ ⁊ cū aere
extrinſeco ꝯmixtoꝝ calidior efficit̄: ⁊ etiā manꝰ eſt multū
poroſa ⁊ infra manū ſunt ſpūs ſubtiles q̄ de facili trāſmu
tant̄ ab illo aere calido: ⁊ ſic ꝑ taleꝫ actionē ſentimꝰ calꝫ: ⁊
alie ptes manꝰ ꝓnt agere friditatē in ſinū: que ptes in caſu
nō repatiunt̄ ab illo ſinu ſeu aere calido exñte in illo ſinu.
Conſilr eſt vbi manꝰ cala calefacit aliqͦd friduꝫ puta po/
muꝫ ⁊ ecōtra frigefit: q2 h̄ eſt ſm diuerſas ptes rōne dif/
formitatis in hꝰ mixtis. ❡ Ideꝫ oīno eſt dōm ad 5ᵐ expe
rimentū q̄ manꝰ frida appoſita capiti calido dolenti ma/
nus calefit ⁊ caput frigefit: q2 ꝑua corꝑa cala exeunt a ca/
pite ⁊ ingrediunt̄ poros manꝰ ⁊ calefaciunt corꝑa debilia
incluſa in manu rōne cuiꝰ actiōis ſentit̄ manꝰ calida. ⁊ eꝯ̄
corꝑa frida in manu ſiue a manu exeūtia agunt friditatē
in corꝑa debilia in capite vel in carne incluſa: ⁊ ſic ſoluūt̄
oīa experimēta que de actiōe nāli inter elnta allegantur.
Ubicūqꝫ eniꝫ ſentimꝰ reactionē aliquā, illa eſt inter corꝑa
mixta multū difformia: rōne cuiꝰ difformitatis per aliquā
pteꝫ pōt eſſe actio ⁊ per aliquā ecōtra reactio. ❡ Pro 4ᵒ
experimēto de diuiſione ⁊c. ſatis pōt cōcedi: q2 ibi nō eſt
reſiſtētia accñtalis ꝓprie. Non eniꝫ vꝫ qualr̄ vna ps iuua
bit ad reſiſtēduꝫ reᵉ alteriꝰ, niſi illa pars moueret̄ ad mo/
tionē alterius ptis: vel niteret̄ vna pars diuiſa alia ptē ptē
illaꝫ cōtinuare. qͦd nō videt̄: quia qñ lignū diuidit̄: vel qñ
ferrū diuidit̄ vna pars nunq̄ꝫ appetit cōtinuare ptes reſi/
duas: ſed in actione nāli inter elemēta cū vna ps remittit̄
pars reſidua nititur aſſimilare illam partem: ⁊ nititur nā/
liter qualitatē in illam ptē inductā corrūpere: ⁊ ſic reſiſtit
agēti. Et ideo vlīter eſt tenēduꝫ q̄ in oī motu locali ⁊ diui
In motu locali nō reſiſtit illa ps q̄ moueri aliq̄ modo.
ſionis nulla pars reſiſtit niſi illa quā reqrit̄ moueri motu
aliquo. ſ. motu cōdenſationis: vel rarefactionis: vel motu
locali: vel alio motu qñ eſt iſta diuiſio: vt qñ hō leuat ba/
culum ille ptes ſunt ita cōtinue q̄ ſi baculus maneat rectꝰ
nō poterit mouere vnā ptē niſi moueat totū baculuꝫ: ideo
totus baculus ſibi reſiſtit. Silr̄ qñ lapis ꝓijcit̄ in aquam
per multas ptes illiꝰ aque eſt motꝰ ꝯdēſationis ⁊ motꝰ lo/
calis vt pꝫ per experimētū: ⁊ ideo tota iſta pars aque que
mouet̄ rōne illiꝰ diuiſionis reſiſtit illi diuidēti ⁊ nō aᵗ ps
⁊ ſtat partē remotā tantū reſiſtere ſicut ꝓpinquaꝫ. hec tñ
nō dꝫ ꝓpria reſiſtētia accñtalis: ſed vt ꝓdictū eſt in altera/
tione multe ptes reſiſtūt in qbꝰ nō eſt alteratio: ⁊ iō illud
argᵐ reactionē verā nō ꝓbat: que. ſ. eſt inter q̄litates acti/
uas ⁊ paſſiuas. ❡ Aliter ḡ per aᵃ experimēta arᵗ ſic. Minꝰ
denſat maius: igit̄ ꝑ ideꝫ minꝰ pōt agere in maiꝰ. Uel ſic.
Inter hꝰ quodā mō denſa ſibiīuicē obuia eſt mutua ꝯdē/
ſatio: igit̄ per ideꝫ inter calm̄ ⁊ fridum vel aliq̄ ꝯria ꝯſilr̄
adinuicē ꝓportionata. ❡ Pro iſto negat̄ ꝯña: ⁊ cū eſt: q2
denſuꝫ obuiās aliq̄ denſo remiſſo nō ꝯdenſabit̄ ſolum ex
actiōe alteriꝰ: ſꝫ ex reſiſtētia alteriꝰ: eo q̄ vna pars corꝑis
velocʳ deſcēdens ꝯdenſat ptes eiuſdem corꝑis: vt pꝫ ſic qñ
corpꝰ magnū liquiduꝫ quodāmō vel molle ponit̄ ſuꝑ den
ſum quieſcēs: ſuꝑior ps corꝑis mollis ꝯdenſat ptē inferio/
rem: ⁊ ſic ideꝫ agit ad ꝯdēſationē ꝓpriā ſm diuerſas ptes.
ſed in ꝯrijs applicatis nulla ps paſſi nec aliq̄ ps agentis
iuuat ad alterationē ꝓpriā. ſ. ad eiꝰ remiſſionē: vel remiſ/
ſionē totiꝰ cuiꝰ eſt pars: ſꝫ nitit̄ reſiſtere cū toto ⁊ totū con
ſeruare: ſed corꝑa que mutuo ꝯdenſant̄ vtrūqꝫ ad ꝓpriaꝫ
ꝯdēſationē agit qͦd nō inuenit̄ in ꝯrijs: ⁊ ſic nō ꝓcedit arᵐ.
Silr̄ iᵃ duo experimēta nō ſunt incōuenientia: nec ſūt ꝯtra
modū cōem negādi reactionē: q2 reactio negat̄ inter ꝯria
vbi. ſ. ille actiōes ꝯriant̄: vt q̄ vnū calefaciat aᵈ ⁊ eꝯ̄ frige/
fiat ab eodē. ❡ In iſtis tñ experimētis allegatis illi motꝰ
nō ꝯriant̄. ſ. ꝯdēſatio vniꝰ ⁊ condēſatio alteriꝰ: vel diuiſio
vniꝰ ⁊ diuiſio alteriꝰ: imo illi motꝰ ſunt eiuſdeꝫ ſpēi ſpālis/
ſime: ⁊ hꝰ reactio nō negat̄: imo poſito q̄ eſſent duo cala:
quoꝝ vtrūqꝫ calefaceret reliquū vel iuuaret ad caliditateꝫ:
eo q̄ iſti motꝰ nō ſunt ꝯrij, nullaꝫ difficultatē iduceret ri/
dendi ſicut pꝫ manifeſte: iō arᵃ nō ꝯcludūt ꝯ̄ ꝓpoſitum.
Si tñ vnū ꝯdēſaret reliquū ⁊ rarefieret ab iſto: nūc eēt co/
lor aliq̄s in argᵗᵒ. vel ſi in experimēto ꝓpoſito vnuꝫ diui/
deret reliquū ⁊ ecōtra: illud diuidēs ab eo cōtinuaret̄ ſm
ptē diuiſaꝫ: vt ſi diuideret māꝫ aliquā cuiꝰ eſt mā ꝯtinua/
tiua ſicut eſt viſcus: ⁊ q̄ illa ſm ptes nō diuiſas igrederet̄
ptes ſeꝑatas illiꝰ diuidētis eaſdeꝫ ptes ꝯtinuādo vel cōti/
guādo iſtius māe in quā ꝓcedit diuiſio talis. Et ſic in ꝯdē
ſatiōe ſtat vnā ptē ꝯdēſare aliā ptē: ⁊ tūc illa ps ꝯdenſans
nō rarefit per eādeꝫ ptē per quā eſt iᵃ dēſatio: ⁊ ſic nō ꝓce
dunt experimēta. ❡ Ideo alr̄ arᵗ ſic. Si aliq̄s ignis paruus
poſitꝰ ſit in aliq̄ pte magne aque ipſaꝫ calefacit ⁊ eandeꝫ
euaporare facit: ⁊ h̄ nō eēt niſi ignis ille ageret in illā aquā:
⁊ aqua illaꝫ ignē totalr̄ corrūpit: igit̄ reactio eſt poſſibilis.
❡ Pro iſto dī qñ ignis agit in aquā fiūt mlte exhalatiōes
ignis igrediētes aquā que ſeparāt ꝑuā aquā a tota ⁊ ipſaꝫ
ſeꝑatā calefaciūt: ⁊ ſic nō eſt reactio ꝓpē. Uel pōt dici q̄
ille exhalatiōes que diffundunt̄ in aquā ſentiunt̄ a nobis:
ac ſi tota vel magna ps aq̄ eſſet calefacta ⁊ ſic ſenſus erat
⁊ tūc ꝑꝑ iᵃ corꝑa cala in iᵃ aq̄ ſenſata dicimꝰ iˡᵃ aquā cale/
fieri: ⁊ tñ illa nō calefit. ❡ Alr̄ pōt argui ꝑ auctes 3ᵒ phy. T.c.8.
vbi ponit̄ q̄ oē mouēs nālr̄ in mouēdo mouet̄. Et pmo d̄ 16.
gnōne q̄ oē agēs nāle in agēdo repatit̄. Iſtō ēt pꝫ in mul/ T.c.53.
tis alijs locis ex qbus inuenit̄ reactionē verā eſſe poſem. 54.
❡ Pro iſtis igit̄ auctibꝰ ⁊ alijs que in ꝯriū allegant̄ dī q̄
iᵒ vbā moueri, accīʳ pro illo termino vel pro iſtis eſſe mo/
bile: ⁊ ſigāt q̄ oē mouēs nāle itelligēdo de hīs q̄ mouētur
hic iferiꝰ cuiuſmodi ſūt iſta elnta: ⁊ ex hīs cōpoſita q̄ per
cōtactū eoꝝ adinuicē agūt: vt loqmur ꝑ de gnōne capᵒ de t.c.44.
tactu in agēdo mouet̄. i. eſt mobile tali motu quo mouet 45.
vel ꝯrio motu ab aliquo. ſ. eiuſdeꝫ ſpēi cū illo moto. Et ſilr̄
qñ dī q̄ oē agēs in agēdo repatit̄ intelligēdo de elnts vt
ꝑus: q̄ oē tale agēs nāle natū eſt repati ab agēte ſibi ꝯrio
⁊ nō intelligit q̄ omne tale agens actualr̄ repatiat̄: ſicut
multotiēs ponit q̄ omne corpus nāle mouet̄ ad ſuū locū:
qͦd nō eſt verū niſi intelligat̄ per illud verbū moʳ eſſe mo
bile. Ex hīs reſponſionē elicere poteris tam ad auctoritates q̄̄
ad experimēta. ❡ Ideo ſummarie dī q̄ inter vniformia Summa iſtius opinionis.
ꝯria loquēdo de vniformi: ita q̄ oēs ptes equales equalr̄
cōtineāt de forma ſiue iᵃ vniformia ſint eq̄lia in poᵃ pre/
ciſe ſiue ineq̄lia nō eſt reactio: loquēdo de reactiōe duos
motus. ſ. contrarios includente ſicut ſunt calefactio ⁊ fri/
gefactio humectatio ⁊ deſiccatio. Inter tamen difformia
bene pōt eſſe actio cum reactione: ⁊ hoc ſm diuerſas par/
tes tam inter equalia in potentia q̄̄ inequalia: vt predicti:

tur: ⁊ tunc erit iª actio ſm proportionem potentie cum iª
applicatiōe ad totā reſiſtentiā paſſi cū eadē applicatiōe:
⁊ nō ſm ꝓportionē toti⁹ ad ptem vt ponit cōis poſitio. De
alijs tñ motib⁹ q nō ꝯuiant nō eſt incōueniēs eē reactiōez
in illis ſicut calefactio ⁊ deſiccatio: ⁊ ſic de alijs.

Intellectis his quedā dubia ſūt mouēda. Primū
eſt: nūqd agēs vnifor^r ſꝫ alterū extre^m
applicatū ad ꝯ̄riū in qḋ certo gradu cū illa applicatione
ſufficiat agere: ſilr ſi ad aliud ei⁹ extremū applicaret̄ vnū
aliud ꝯ̄riū eq̄lr diſpoſitū cū priori: quoꝝ neutrū in reliquū
ſufficiat agere tardi⁹ agat in iª duo q̄ in vnuꝫ illoꝝ per ſe.
Qḋ ſic arguit̄: qꝛ ſi nō ſit illḋ agēs. a. ⁊. b. c. iª duo paſſa: tūc
a. aget tardi⁹ in iª duo q̄ in vnū illoꝝ per ſe ſicut eſt de lu
minoſo. Naꝫ cū tota lux candele cōcurrit ad vnū locū do-
mus fortior eſt actio q̄ ſi iſta lux diffunderet̄ per totā do-
muꝫ: qꝛ aliter per reflexionē nunq̄ lux itenſior cauſaret̄.
Sic in ꝓpoſito ſi actio alicui⁹ agentis in duo paſſa tendit
cū quelꝫ ps agat in illud in qḋ totū: ſeqt̄ q totuꝫ agit in iª
duo tardi⁹ q̄ in vnū illoꝝ per ſe. ¶ Ad ideꝫ ar^r ſic. Sit. a.
ignis alterat⁹ a duob⁹ frigidis: nūc ſi. a. alteraret̄ ab vno tm̄:
non ita velo^r alteraret̄ ſicut nūc alterat̄: igit̄ per idem eꝫ
qn̄ agens agit in plura tardius agit q̄ ſi in vnū illoꝝ ſolū.
Silr iſta duo forti⁹ reſiſtūt q̄ vnū illoꝝ per ſe: g̊ cū illud
agēs equebn̄ approximat̄ ad vnū illoꝝ ſicut ad iſta duo:
ſeqt̄ q tunc tardi⁹ agit in iſta duo q̄ in vnuꝫ illoꝝ per ſe.
ꝯn̄a tꝫ ⁊ an̄s arguit̄: qꝛ vnuꝫ illoꝝ tm̄ reſiſtit ſicut aliud:
eo q ſimplr eq̄lis ſunt po^e vt ſuppono ⁊ equebn̄ ad ideꝫ
agens approximant̄: igit̄ iſta duo in duplo plus vel ſaltē
plus reſiſtūt q̄ aliqḋ illoꝝ per ſe ſolū. ¶ Hoc ſic ꝯfirma-
tur. Si eſſet vnū cōpoſitū ex his duob⁹ paſſis vnū iuuaret
reliquū ad reſiſtēduꝫ: ⁊ vtrūqꝫ illoꝝ reſiſteret illi agenti:
cuꝫ g̊ nūc vtrūqꝫ illoꝝ equebn̄ approximet̄ ad ideꝫ agēs
ſicut tunc: ⁊ tūc iſta duo magis reſiſterēt q̄ vnū illoꝝ per
ſe: eo q ps toti⁹ cōpoſiti iuuat aliā ad reſiſtēduꝫ: g̊ nūc iſta
duo magis reſiſtunt q̄ vnū illoꝝ p ſe: ⁊ eadeꝫ eſt po^a agēs
que tunc eſſet: g̊ tardi⁹ ageret iſta po^a in illa duo q̄ in vnū
illoꝝ per ſe. ¶ Itē ſi hō haberet duo eq̄lia pōdera in manib⁹
tardius leuaret vnuꝫ ꝑꝑ reliquū: vt appet experimētalr:
cui⁹ cā eſt reſiſ^a alteri⁹ ⁊ tota po^a agit in totā reſiſtentiā: qꝛ
oē agens ꝯtinuū ex oī pte ſui iuuat̄ in agēdo: ⁊ in qḋcunqꝫ
totū agit, in illud coagēdo agit quelꝫ ps ei⁹: igit̄ ſiue in duo
ꝯtinua ſiue diſcōtinua fiat actio toti⁹ ⁊ cuiuſcūqꝫ ptis, toti
⁊ quelꝫ ps ei⁹ ex hͦ q plura eideꝫ toti ⁊ ptib⁹ reſiſtunt, tar-
Ad opp^m diꝰ agit in iª duo q̄ in vnū illoꝝ p ſe. ¶ Ad opp^m ar^r ſic.
Utrūqꝫ agit ſm vlt^m ſue po^e: eo q eſt po^a nō coḡſcitiua
⁊ neutrū iuuat reliquū ad reſiſtēduꝫ: igit̄ eq̄lr nūc agit in
vtrūqꝫ ſicut ſi alteruꝫ eēt ablatū. Minor ſic arguit̄. Unū
illoꝝ diſtat totalr ab alio inter que itercipit̄ ꝯ̄riū vtriuſqꝫ
illoꝝ in qḋ neutrū pōt agere: ꝗre neutruꝫ agere poterit in
reliquū: igit̄ neutrū illoꝝ ab alio diſtās iuuabit reliquum
ad reſi^m. ¶ Cōfirmat̄ ſic: eo q neutrū eoꝝ ſufficit agere
2° per aliquā ptē illi⁹ itercepti inter iſta duo. igit̄ ⁊c̄. ¶ Iteꝫ
capiat̄ latitudo p quā vnū illoꝝ ipedit actionē illi⁹ agen-
tis in reliquū: ⁊ ſeqt̄ q ita modica poſſet ꝓpor^e eē ſꝫ quā
ageret in reliquū q illud totā actionē in reliquū ipediret:
⁊ per ꝯn̄s dato vno maioris po^e q̄ eſt illud datū ageret in
illud agēs pͥncipale. ꝯn̄s falſum: eo q tale ſm iſtā applica-
tionē eſſet maioris po^e q̄ eēt iḋ datū agēs pͥn^le. ¶ Similr
illud agēs nō debilitat̄ in ei⁹ actione vbi agit in duo talia:
eo q neutrū aget in ipm: ⁊ ſtat q neutruꝫ iuuet reliquū ad
reſiſtēduꝫ rōne diſtātie itercepte ſicut ſi inter duo talia po-
neret̄ obſtaculuꝫ per qḋ neutrū ſufficeret agere ⁊ vni ap-
proximaret̄ aliqḋ agēs reliquū nō iuuaret ipm ad reſiſtē-
dum: ⁊ hoc rōne illius obſtaculi intercepti: ſed iḋ agēs tm̄
impedit q̄tū illud obſtaculuꝫ: eo q in vtrūqꝫ agit ⁊ neu-
trum in ipſuꝫ: igit̄ dubiū nō eſt verum.

Pro iſto dr̄ q in caſu dubiū eſt verū: ⁊ in caſu nō: Solo
qꝛ in caſu illud agēs nō equebn̄ approxi-
mat̄ ad illa duo ſicut pͥmo applicat̄ vni ſicut qn̄ hō leuat
lapideꝫ vel baculuꝫ cū vna manu ⁊ apponit̄ vnum graue
alteri manui: in caſu vnuꝫ illoꝝ ipedit leuationē alterius,
cuius cā eſt: qꝛ pͥmo applicat totā ſuā po^am ad leuationem
vni⁹: deinde nō niſi ptē ꝑꝑ illā appōneꝫ. Sed in actiōe nālī
inter eſtra illud totā ſuā po^am applicat quā cū illa applica-
tione ſufficit: ⁊ iō appō alteri⁹ nō tollit actiōeꝫ ei⁹ cū ma-
neat ꝯſilis applicatio ſicut prius vl neutrū aliq mō in ali-
quā ptē mediꝫ itercepti ſufficit agere: qḋ mediū vtriqꝫ cō-
trariat̄. ¶ Et nūc ad pͥ^m ar^m admittit̄ caſus: ⁊ dr̄ tūc q. b. c.
nō plus reſiſtunt q̄ vnū illoꝝ per ſe. Et ad ex^m de lumio-
ſo dr̄: q nō ſolū eſt actio ꝑꝑ illud lumioſū ſꝫ p reflexionē:
qꝛ illud obſtaculuꝫ rōne lumis acti ad ei⁹ ſupficiē agit lu-
men ⁊ intēdit lumē actū ab iº lumioſo: ⁊ tñ nō magis reſi-
ſtunt iª duo media q̄ vnū illoꝝ per ſe. vñ dr̄ q ſi per ima-
ginationē eſſet vacuū ex vna pte luminoſi nō minꝰ lumē
ageret in medio ab iº illuminato q̄ ageret in illud me^m: da-
to q eēt vnū aª mediū alteri ei⁹ extremo applicatū: eo q
tūc nō eēt reflexio: ⁊ ſic hͦ nō eſt rōne mediꝫ appoſiti: quia
lumē remiſſi⁹ agit in mediū prehabitū: niſi qꝛ pͥus fiebat
ibi reflexio: ⁊ nūc nō eſt ibi reflexio: ⁊ ſic non magis reſi-
ſtunt iª duo me^a q̄ vnū illoꝝ. ¶ Itē ideꝫ ꝯfirmat̄. agat. n.
a. lumioſuꝫ in. b. c. media oīo ꝯſilia: tūc ſi tardi⁹ vel remiſ-
ſius lumē agit in. b. rōne. c. igit̄ ꝯdenſato. c. magis ei⁹ actio
ipediret̄: eo q. c. tūc ſm ptē diſtātē meli⁹ ipſi applicaret̄.
ſed ꝯn̄s eſt falſuꝫ: qꝛ ponat̄ q. c. mediū ſit ita rarū: q tunc
nō ſufficit cauſare reflexionē vſqꝫ ad. b. ⁊ ꝯdēſet̄. c. ⁊ ſeqt̄
manifeſte q ita pōt ꝯdēſari q ſufficeret cauſare hͦ refle-
xionē in. b. ⁊ ſi ſic forti⁹ aget. a. in. b. lumē q̄ ſi. c. nō eſſet cō-
denſatū. ideo ar^m nō ꝓcedit: qꝛ nō remiſſius lumē agit in
vnū q̄ in reliquū rōne reſiſtētie alteri⁹. Et tūc ad aliḋ ar^m
dr̄ q an̄s nō vlr eſt verū. ⁊ hoc intelligēdo de pͥmo inſtāti
applicatiōis: qꝛ cā q̄re tardi⁹ vnū aget q̄ iſta duo, eſt: quia
vnū approxīat̄ alteri extremo: ⁊ remittit ibi q̄ti^as alteri⁹
reſiſtētis: ita q tota reſiſ^a alteri⁹ fit minor rōne actiōis illi⁹
appoſiti. ⁊ ſic ſi. a. ignis applicaret̄. b. c. terris: quaꝝ neu-
tra ad punctū me^m ipſi⁹. a. ſufficeret agē: ita q ſue actiōes
ad nullū punctū ꝯcurrerēt in nª ꝓpor^e iaper reſiſ^a eē mi-
nor re^a vni⁹ agētis q̄ ſi alterū eēt ablatū: eo q nª certā q̄li-
tatē aliqḋ illoꝝ incipit corrūpere: ⁊ ſic in nª ꝓpor^e incipit
agē. b. veloci⁹ q̄ ſi. c. eēt āmotū. vbi tñ ſue actiōes ad eun-
deꝫ punctū cōcurrēt tūc iª duo ad pūctū taleꝫ multū velo-
ci⁹ agerēt q̄ vnū illoꝝ p ſe: qꝛ vtrūqꝫ ibi certa velocitatē
ſufficeret agē: ⁊ ſic aliqn̄ illa duo agētia forti⁹ alterabūt q̄
ſi pͥmo vnū illoꝝ eēt ablatuꝫ: ⁊ in caſu nō. Sꝫ hͦ ſemꝑ eſt
veꝝ q applicatis iſtis duob⁹ agētib⁹ equebn̄ ſic alterum
illoꝝ p ſe an̄ qḋcūqꝫ inſtās datū forti⁹ aget vnuꝫ illoꝝ ꝑꝑ
reliquū cui⁹ cā eſt remiſſio q̄litatis ad extremū ad qḋ ap-
proximat̄ que totā reſiſ^as re^a alteri⁹ facit minorē: eo q q̄lꝫ
pars iuuat aliā ad reſiſtēduꝫ: ⁊ tunc qn̄ ꝯcludit̄ agit̄ p ideꝫ
qn̄ aliqd agit in 2º in duplo tardi⁹ q̄ in vnum agit. negat̄
ꝯn̄a: qꝛ neutruꝫ eoꝝ ſufficit quouis mō minorare po^am al-
teri applicatā: ⁊ tm̄ ēt diſtant q lꝫ agens aliquā q̄litatem
induceret in vnā ptē quācūqꝫ modicā ⁊ ſtaret iª diſtātia re-
liquū agere nō appeteret iſtā q̄litatē remittēdo: qꝛ appetit⁹
nālis cauſat reſiſtentiā accidētaleꝫ vt pͥus dictū eſt. Et tūc
ad ar^m negat̄ q illa duo plus reſiſtunt illi agenti q̄ vnum
illoꝝ per ſe: ꝫ iª equalr reſiſtant: qꝛ ex illis nō fit reſiſten-
tia vna. ¶ Ad confirmationē negat̄ ꝯn̄a: qꝛ ſi eſſet vnum
cōpoſituꝫ ex illis q̄cito eſſet aliqua qualitas in vnuꝫ acta
iḋ amoto agente principali iuuaret ad corruptionē illi⁹ q̄li-
tatis ⁊ hoc appeteret qḋ nō oportet iſtis exiſtentib⁹ ſepa-

ratis ⁊ tantuꝫ diſtantibus. ¶ Aliud argm ſoluit̄ in poſitiōe. ¶ Quidaꝫ tñ dicunt dubiū illud vniuerꝰ eſſe veruꝫ: ⁊ dicunt ꝙ vnū iuuat reliquū ad reſiſtēdū in caſu: tñ videt̄ ꝙ valde difficile eſt ponere per quē moduꝫ eſſet iſta reſiſtētia: elige igit̄ quācūq; partem volueris.

Dum 2m **Adhuc** pōt eſſe dubiū. nunqd ex duobꝰ difformibus ſm extrema adinuicē approxiata ſilibꝰ iꝰpūt adinuicē agere. Et arꝰ ꝙ ſic: q2 nō obſtāte ſilitudie ad extrema adinuicē approxiata: ſm tñ aliq pūcta iſta ſunt ſatis diſſimilia: igit̄ rōne illꝰ ꝯtrietatis actio pōt eſſe inter iꝰ. ¶ Hoc ſic ꝯfirmat̄. Sit.n.a.inteſiꝰ.b. ita ꝙ remiſſius extremū.a.ſit eq̄ intēſuꝫ cū extremo intēſioꝛi.b. Et arꝰ ſic. Si a.eēt vniforꝰ gu ad quē termiat̄.b. in extremo intēſioꝛi.a. ſufficeret agē in.b.q2 alr nūq̄ aliqḋ ſūmū alteꝝ aſſilaret: eo ꝙ citiꝰ iducerēt gradus ſūmꝰ ad extremū imediatū q̄ ad pūcta irrinſeca. cū igit̄ nūc.a.eſt maioꝛis poꝰ q̄ eēt tūc: ⁊ ad oēꝫ eiꝰ pūctū eſt q̄ntitas intēſioꝛ q̄ tūc eēt ⁊ eque bene approxiat̄.a.ad.b.ſicͭ tūc: igit̄ nūc aget in.b. ¶ Ad ideꝫ ſic arꝰ. Sint.a.b.duo cal̄a difformia vt p̄ius: ⁊ argꝰ ſic. Si tota calitas.b.eſſet ablata ⁊ maneret ſua fridītas difformis ſicͭ nūc eſt: ex quo calitas.a.dn̄at̄ ſufficiēter ſup iſtā fridītatē ⁊ fridītatē irrinſecā vt eſt poſe: tūc.a.appeteret agē ⁊ ageret in.b.rōne ꝯtrietatis iter calitatē.a.⁊ fridītatē.b. ſꝫ nūc eq̄lr eſt ꝯtrietas ſicͭ tūc: eo ꝙ ꝯtrietas eſt ſoluꝫ ex calitate ⁊ fridītate. nec calitas irriſeca.b.īpediret actionē.a.in.b. imo potius iuuaret ad actionē calitatis: igit̄ a foꝛtioꝛi nunc appetit agere in.b. vt eiꝰ fridītatē corrūpat. ¶ Silr ſi ſilitudo eſſet cā q̄re iter iſta nō eēt actio: ſeqꝫ̄ ꝙ nūq̄ poſſet vnum ſūmū aſſimilare aliḋ: eo ꝙ erit velocioꝛ actio ad extremū īmediatū agēti q̄ ad pūcta irrinſeca pp̄ applicationē melioꝛē: ⁊ ſic erūt ſilia ſꝫ extrema adīuicē approxiata anteq̄ erit aſſilatio cōplete fcā. ¶ Silr arꝰ. Ubi difformia oino ſūt ſilia ⁊ ſm extreā intēſioꝛa adīicē applicant̄ ꝙ vnum ſufficit agere in reliquū ⁊ aget. ſit.n.vnū.a.⁊ aliud.b. ⁊ argꝰ ſic. Calitas.a.lꝫ ſit ſilis calitati.b. ſm extreā eoꝝ approxiata: eſt tñ inter calitatē.a.⁊ fridītatē.b.ſufficiēs ꝯtrietas vna cuꝫ ſufficiēti dn̄io vt ſuppono: ⁊ calitas.b.nō reſiſtit inductioni calitatis: vl̄ corruptiōi fridītatis: imo potiꝰ iuuat ad eiꝰ corruptionē: igit̄.a.p ſuā calitatē ſufficit agere in.b.⁊ eiꝰ fridītatē corrūpere: ⁊ ēt.b.in.a.intēdendo eiꝰ calitatē ⁊ remittēdo fridītatē eiꝰ. ¶ Ad idē arꝰ cōfirmādo arm factuꝫ: ex quo calitas.a.ſe hꝫ ad fridītateꝫ.b.in ꝓpoꝛtiōe maioꝛis ineq̄litatis ꝯtigit dare ſūme calīm poꝰ minoꝛis q̄ eſt.a.vel vnū vniforꝰ gu quo eſt extremū intēſiꝰ.a.ꝙ ſit mioꝛis poꝰ per calitatē q̄ eſt.a.ꝙ hēat ēt ſe ad fridītatē in.b.in ꝓpoꝛtiōe maioꝛis ieq̄litatis minoꝛi q̄ eſt ꝓpoꝛꝰ calitatis.a.ſup fridītatē.b. eo ꝙ pōt accipi aliqd ſūmū ſeu vniforꝰ remiſſuꝫ quocūq; gu volueris alicuiꝰ poꝰ ⁊ aliqḋ ſub eodē gu in duꝰ mioꝛis poꝰ ⁊ ſic in ifim: qḋ ſit.c.tūc ſic.c.ſufficit agē in.b. nō obſtāte ſilitudie ſꝫ extreā approxiata: q2 alr nūq̄ vnū ſummū vniforme poſſet ſibi aliud ſūmū ſibi ꝯtrū aſſilare vt p̄ius ꝯductū eſt: igit̄ cū.a.ſit maioꝛis poꝰ q̄.c.⁊ ſꝫ extrem approxiatū ad.b.eſt maioꝛis poꝰ ⁊ eq̄ intēſuꝫ ſicͭ eſt.c.ſeqꝫ̄ per idē ꝙ.a.agit ⁊ nitit̄ agere in.b. igit̄ ps ps affirmatiua.

In oppm ¶ In oppm argꝰ ſic. Si.a.approxiatū ad.b.aget in.b. vbi approximat̄ ſm extrema intēſioꝛa eque intēſa eadē rōne b.aget in.a.⁊ ſi ſic ſm eādeꝫ p̄tē ageret.a.in.b.⁊ eꝯ repatet̄. ꝯñs eſt ꝯ p̄dcā de reactiōe. ¶ Itē dato illo ſeqꝫ̄ ꝙ dato vniforꝰ difformi medietas intēſioꝛ ageret in medietatē remiſſioꝛē ipſaꝫ intēdendo: eo ꝙ lꝫ ille medietates ſm extremū terminās vtrāq; medꝫ ſint eque intenſe: ſunt tñ ſm pūcta irriſeca ſatis diſſilia. ⁊ ſi ſic. ſi tale vniforꝰ difforme eēt terminatū ad ſūmū ſm alterū eiꝰ extremū illud ſeipſ ad gm ſūmū reduceret: eo ꝙ ps intēſioꝛ nitit̄ agere in parteꝫ remiſſioꝛē. ¶ Itē ſi ſic: ſeqꝫ̄ ꝙ ſi eſſent duo vniforꝰ difformia oīo diſſilia ad ſūmū termiata: quoꝝ vnū ſupponeret̄ alteri nō obſtāte ſilitudine oiuꝫ pūctoꝝ adinuicē approximatoꝝ rōne ꝯtrietatis p̄tiū diſſiliuꝫ iſta ſufficiēt agere adinuicē. ¶ Itē ex illo ſeqꝫ̄ ꝙ ideꝫ eēt mouēs ⁊ motū immediate eiuſdeꝫ actionis: dato.n.tali mixto difformi calitas remitteret fridītatē ⁊ nō erit remiſſio fridītatis niſi p actionem vniꝰ elemēti in illo mixto: ⁊ per corruptionē illꝰ frigiditatis ſeu actionē illiꝰ calī illud calīm intēderet̄: q2 non erit aliud intēdēs calitatē niſi ip̄ſꝫ: igit̄ idē calīm erit imediate ſeipſuꝫ calefaciēs. ꝯñs eſt falſuꝫ. igit̄ ⁊ dubium ⁊c.

Pro iſto dī ſuſtinēdo p̄tē affirmatiuā: q2 alr vt dicetū eſt opꝫ iſtas ꝯnes concedere. ſ. ꝙ.c.eſt vnū calꝫ ſufficiēs ſibi aſſilare.b.remiſſius eoꝝ.a.eſt vnuꝫ calꝫ in duplo maioꝛis poꝰ q̄.c.⁊ calidiꝰ.c.ſm ſe ⁊ q̄lꝫ ſui: ⁊ tñ.a.approxiatū ad.b.ſm extremū remiſſiꝰ nō ſufficiet agere in.b. ¶ Silr ꝙ.a.non ſufficit agere nec aſſilare ſibi b.⁊ ꝙ.a.ſm ſe ⁊ q̄lꝫ eiꝰ p̄tē per magnā latitudinē remittet̄ ſtāte applicatiōe eadē ⁊ fcā iꝰ remiſſione ſufficiet agē in.b.que tñ nō ꝯueniūt rōni. ex quo enꝫ.a.eſt maioꝛis poꝰ q̄.c.⁊ magis ꝯriat̄ ipſi.b.q̄.c. vl̄ tantū ſi.c.ſufficiat agere in.b.⁊.a.a foꝛtioꝛi in idē.b.ſufficiet agē: ⁊ ille ꝯnes ſequūtur dato oppoſito dubiȷ. Quia ſit.b. vniforꝰ difforꝰ remiſſum: ⁊ ſit.c.remiſſum vniforꝰ gradu ad quē terminat̄.b.in extremo ſuo intēſioꝛi ⁊ ſufficiet.c.aſſimilare.b.⁊ ſit.a.vniformiter difforme in centuplo maioꝛis poꝰ q̄.c.termiatuꝫ in extremo remiſſioꝛi ad gm ſub quo eſt.c.tūc dato oppoito dubiȷ.a.nō ſufficiet agere in.b. ſi remiſſiꝰ eiꝰ extremū approximat̄ extremo intēſioꝛi.b. vt p3: ſeqꝫ̄ igit̄ pª ꝯclo. ſcḋa etiā ſeqꝫ̄: q2 ſi.a.remittet̄ ad itēſionē.c.tūc ſufficeret agere in.b.ſicͭ nūc.c.ſuffic. Jō dī p̄teꝫ affirmatiuā dubiȷ eē verā.

Ad arm in oppm ¶ Et dī ꝙ in p̄mo arꝰ in oppm nō deducit̄ ad aliqḋ incōueniēs: q2 vt p̄ius tangebat̄ de reactiōe dī ꝙ ſm p̄tē eādē nō eſt poſſis actio cū reactiōe qualitatū ꝯtraꝝ: ꝙ tñ calīm vnū iuuet ad calefactionē alterius ⁊ ecōtra nō eſt incōueniens vt dī in ſolone ſexti experimēti. ¶ Pro 2º arꝰ pōt dici ſatis rōnabilr ꝙ tota calitas ſm ſe totā agat corrūpēdo fridītatē in tali vniforꝰ difformi ⁊ reducet ſeipſum ad vniformitatē extremi intēſioꝛis vel ad gm ſummū niſi ipediat̄ aliūde vt per formā ſupadditā: vel per corpa ſupceleſtia vel per alia irrinſeca. illud.n.elemētum dn̄ans nitit̄ eſſe in ſua maxīa ꝑfectiōe nālr. ſi igit̄ nō ipediat̄ ad illam ꝑfectiōeꝫ ageret que eſt eē ſub gradu ſūmo. Et idē pōt rōnabilr ꝯcedi de vniformi remiſſo ꝙ illud elm̄tū ſeipm ad gradū ſummū intēdet ⁊ remittet fridītatē ſecū coexītēſaꝫ. ¶ Et ſi arguit̄ ex illo: igit̄ ſummū aget in ſeipſuꝫ: q2 maꝰ capax eſt ⁊ ipſuꝫ alicuiꝰ calitatis eſt actiuū. Negat̄ ꝯña: q2 forma ſumma elemēti maxīa eſt que in iª mā haberi pōt. ⁊ hꝰ forme certe diſpōnes in mā nālīter correſpōdent ſicut forme ſumme terre correſpōdet certa denſitas nālr: ⁊ forme ignis correſpōdet certa raritas ghis diſpōnibꝰ habitis illud nō eſt natum agere diſpōneꝫ aliquā vlterioꝛē: q2 nec talis illi forme cōpetit: ⁊ ſic habita forª ſumma nō eſt ideꝫ natū agere in eandeꝫ mām: forª tñ remiſſa que deficit in illo gu qui eſt finis quaſi nālis in actiōe hꝰ nāli intentꝰ ſicut locꝰ vel quies in loco nāli nālr intendet̄ ab elemēto: ideo forª remiſſa nitit̄ intendere ſubiectū in qḋ agit ad illuꝫ gradū: quo gradu habito nālr ceſſat motus. ¶ Ad 3m argm dī: cōcedendo ꝯneꝫ. ſ. ꝙ vtrūq; iuuabit reliquū ad remiſſioneꝫ ſue fridītatis: ⁊ pōt rōnabilr vt p̄ius cōcedi ꝙ vtrūq; intēdet̄ ad gm ſuū intenſiſſimū: vel ad gradū ſūmū. ¶ Ad 4m argm negat̄ hoc ꝙ ideꝫ in hꝰ actione īmixto difformi ſit īmediate mouens etiā motū ⁊c. imo vbi caliditas inducit caliditateꝫ illud qḋ īmediate mouet̄ eſt elemētū: ⁊ illud qḋ mouet ad illaꝫ caliditateꝫ eſt caliditas iª habita: q2 elemētū eſt illud qḋ calitatē recipit ⁊ calitas agit calitateꝫ.

f[m] ſic for[a] mouet totũ cõpoſitũ ⁊ nõ mouet ĩme[te] ſeipſaȝ ſi tñ caliditas iſta agẽs foret ſubm caliditatis acte bñ ꝓcede/ret ar[m]: ⁊ ſic i[a] caliditas que ĩme[te] mouet nõ ĩtẽdit ſeipſaȝ ſȝ ſubȝ cui[us] ẽ ipa caliditas ⁊ ẽt caliditas ĩducta: qꝺ ſubȝ ſeparatũ eſt ſiue diſpatũ ab illa caliditate agẽte: ⁊ ſic nõ ꝓcedit arg[m].

3[m] du[m]. **Aliter põt dubitari.** Nunqd aliqd ſummuȝ in aliqꝺ aliud ſummuȝ ſibi 2riũ poſſit agere. qꝺ ſic pȝ manifeſte: qꝛ vnũ 2riũ ſupra reliquũ põt dominari: alr enĩȝ eſſet oĩs actio nãlis ablata. igit̃ ⁊c. ¶ Ad opp[m] ſic ar[r]. Si dubiũ ſit verũ ſit. a. ſumme calĩm ⁊. b. ſumme fridũ ⁊ agat. a. in. b. ⁊ ar[r] ſic. Ex ꝓpor[ne] ſoluȝ finita incipit agere in. b. eo qꝺ eſt po[e] finite ⁊. b. certe reſiſtẽtie: vel igit̃ acta caliditate in. b. que 2tinue corrũpetur per actionẽ. b. deducto. a. agẽte 2ſeruabit. a. caliditatẽ actã a ꝓportiõe finita vel a ꝓpor[ne] infinita. nõ 2[m]: qꝛ tũc nulliȝ agẽs illaȝ caliditatẽ corrũperet ſtãte iſta caliditate: ⁊. a. agente cõſeruãte. nulla enĩȝ po[a] põt hẽre maiorẽ ꝓpor[nẽ] ad corrũpendũ i[a] caliditatẽ q̃ꝫ eſt ꝓpor[o]: ex qua. a. eandẽ 2ſeruabit: ex quo. a. 2ſeruabit a ꝓpor[ne] infinita. ⁊ 2ñs ad qꝺ deducit̃ eſt falſuȝ vt notũ eſt: eo qꝺ 2tingit accipere fridũ maioris potẽtie q̃ꝫ eſt po[a] caliditatis ipſius. a. cũ po[a] caliditatis iducte: ⁊ ſi ſic/ſeq̃t̃ qꝺ. a. ſoluȝ 2ſeruabit caliditatẽ inductã a ꝓpor[ne] finita: cũ igit̃ añ qꝺcũqꝫ iſtãs erit aliq̃ ꝓpor[o] friditatis. b. ad ſuã caliditatẽ ⁊ dupla tripla ⁊ q̃drupla ⁊ ſic in ĩfi[m]: g̃ ſeq̃tur qꝺ imediate poſt hoc maior erit ꝓpor[o] friditatis. b. ad corrũpenduȝ ſuã caliditatẽ in ipſuȝ inductã q̃ꝫ erit ꝓportio ex qua. a. tantã caliditatẽ 2ſeruabit: qꝛ infinita erit ꝓpor[o] frigiditatis. b. ad ſuã caliditatẽ: ⁊ per 2ñs añ qꝺcũqꝫ iſtãs aget friditas. b. remittẽdo caliditatẽ in ipm̃ iductã: ⁊ ſic per eãdẽ ptẽ ſil' erit actio friditatis ⁊ caliditatis qꝺ eſt ipoſe. ¶ Pro iſto forte dĩ qꝺ ſi caliditas. a. 2ſeruaret caliditatẽ inductã in. b. ex ꝓportiõe quã. a. ageret in. b. oportic valeret arg[m]: ſed nũc eſt 2ſeruatio ex ꝓportiõe tot[us] potẽtie. a. ad po[am] illius caliditatis iducte ⁊ i[a] ꝓpor[o] 2tinue erit maior q̃ꝫ ꝓpor[o] frigiditatis. b. ad eandẽ caliditatẽ: eo qꝺ caliditas. a. 2tinue erit maior friditate. b. ⁊ ſic. b. nõ ſufficit agere remittẽdo illaȝ caliditatẽ. a. ſtãte ſic applicato. ¶ Cõtra datã hãc rñſionem ſeq̃t̃ qꝺ. a. 2ſeruabit caliditatẽ. b. 2tinue: ex ꝓportiõe minori ⁊ minori: eo qꝺ po[a]. a. 2tinue erit tãta preciſe ſicut nũc eſt: ⁊ po[a]. b. ſm caliditatẽ cõtinue maiorabit: ⁊ per 2ñs 2ti[e] mi[n]⁊ minus 2ſeruabit caliditatẽ actã. 2ñs eſt irrõnabile: qꝛ 2ti[e] eque bñ applicat̃ ad q̃litatẽ inteſiorẽ ſicut ꝑus ad remiſſiorẽ ⁊ ſemꝑ manebit eq̃lis: igit̃ 2tinue equalr̃ 2ſeruabit. igit̃ ⁊c. ¶ Itẽ ſi ſic ſe[r] qꝺ in infi[m] ĩme[te] poſt h̃ 2ſeruabit: eo qꝺ imediate poſt hoc infi[m] modicũ erit de caliditate in. b. ⁊ ꝑ 2ñs infinite magna erit ꝓportio ĩme[te] poſt hoc: ⁊ per 2ñs quãticũqꝫ magna po[a] friditatis imediate poſt hoc applicaret̃. b. nõ ſufficeret agere remittẽdo caliditatẽ in eo actaȝ. ¶ Itẽ deĩ inſtãs in quo caliditas. b. erit eq̃lis po[e] cũ caliditate. a. ⁊ tũc ante illud inſtãs erit aliq̃ ꝓpor[o] ⁊ in duplo minor ⁊ in q̃druplo minor ⁊ ſic in infi[m]: inter caliditateȝ. a. ⁊ caliditatẽ. b. igit̃. a. ĩfinite modice añ finẽ 2ſeruabit ⁊ in fine nõ 2ſeruabit: ⁊ per 2ñs tũc nõ fortius reſiſtet caliditas in. b. q̃ꝫ ſi. a. eſſet ablatũ. ⁊ per idẽ neutra medietas plus reſiſtet q̃ꝫ ſi a[a] eſſet ablata: ⁊ ſic tolleret̃ reſi[a] accidẽtalis. ſed 2ñs eſt falſum. ergo reſponſio nulla.

Ideo dicit̃ alr̃ qꝺ ſicut reſi[a] non eſt ex ꝓpor[ne] reſiſtentis ad agẽs nec 2ſeq̃t̃ ꝓportioneȝ ſm illas po[as] reſiſtẽteȝ: qꝛ oĩb[us] eq̃lr̃ reſiſtit. ſ. ſm vltimuȝ ſue potẽtie vbi eſt po[a] nõ cognoſcitiua: ſȝ vna po[a] fortius agit in i[am] reſi[am] q̃ꝫ a[a]: qꝛ hoc eſt rõne maioris po[e] ⁊ nõ: qꝛ i[a] reſi[a] plus reſiſtit vni q̃ꝫ alteri ſic 2ſeruare nõ 2ſeq̃t̃ proportionẽ inter 2ſeruãs ⁊ 2ſeruatũ: nec inter illud 2ſeruãs ⁊ po[am] intẽdentẽ illud 2ſeruatũ corrũpere: qꝛ 2ſeruare eſt quodãmõ reſiſtere/ſȝ abſolute 2ſeq̃t̃ 2ſeruãtis po[am]: ita qꝺ i[a] po[a] 2ſeruãs cũ eq̃li applicatiõe eq̃lr̃ 2ſeruat i[d] qꝺ ab eo 2ſeruat̃ ſiue illud cõſeruatũ maioret̃ ſiue minoret̃ in po[a] ſicut illud qꝺ iuuat aliud ad reſiſtẽduȝ: ſiue illud qꝺ iuuat̃ ſit minoris po[e] ſiue maioris ſemꝑ equalr̃ iuuat ſtãte applicatiõe cũ po[a] ſua: ⁊ ſic ſoluit̃ argu[m] in ptẽ oppoſitã dubij. ¶ Cũ igit̃ q̃rit̃ nũqd. a. 2ſeruabit ex ꝓportiõe finita vel ex ꝓpor[ne] infinita. dĩ negãdo diuiſionẽ ſic intelligendo qꝺ cõſeruatio ſeq̃t̃ ꝓpor[nẽ] inter 2ſeruãs ⁊ illud 2ſeruatum qꝺ ꝓpor[o] ⁊ 2ſeruatio correſpõderẽt in gradu ſicut eſt de velocitate mot[us] ⁊ ꝓportiõe inter po[am] motiuã ⁊ reſiſtentiã. vñ põt dici qꝺ ſicut reſiſtẽtia nõ ſeq̃t̃ ꝓportionẽ po[ar] adinuicem: ita nec actio aliquã taleȝ ꝓpor[nẽ] 2ſeq̃t̃: ſed abſolute 2ſeq̃t̃ po[am] agẽtie: ⁊ ſic actio dĩ maior: qꝛ eſt a maiori po[a] ſm vltimũ eius agẽtis. nec dĩ illa actio magna: qꝛ ꝓuenit a po[a] agẽte ſm magnã ꝓpor[nẽ]: ſed illa de cã actio dicitur velox: qꝛ ꝓuenit a magna ꝓportiõe: ⁊ ideo bñ dĩ qꝺ velocitas actiõis 2ſeq̃t̃ ꝓportionẽ ⁊c. ſȝ nõ actio i[a]: qꝛ maioreȝ actionẽ facit fortis hõ portãdo magnũ põdus q̃ꝫ vna muſca portãdo paruũ pondus: ⁊ tñ in caſu multũ velocior eſt actio illa. ſ. portatio ꝓueniẽs ab illa muſca q̃ꝫ ab illo hoĩe ⁊ ſic nõ ꝓcedit arg[m]: eo qꝺ fundat̃ ſuꝑ hoc qꝺ 2ſeruare ſeu reſiſtere 2ſequat̃ ꝓpor[nem] qꝺ eſt negãduȝ. Qualr̃ tñ actio cõſequit̃ potẽtiaȝ agentẽ magis tractabit̃ ĩfra vbi ſpãli[r] dicet̃ de difficultate actionis.

¶ Tractatus octauus de potentia rei.

Nunc arguit̃ 2 põneȝ ponentem qꝺ po[a] rei attẽdit̃ penes multitudinẽ forme in mã ⁊ nõ attẽdit̃ penes intẽſionẽ illi[us] forẽ nec extẽſionẽ. Naȝ ex iſto ſeq̃t̃ qꝺ aliqd eſt infinite intẽſe calĩȝ per totũ ⁊ eſt pedalis q̃titatis: ⁊ tñ ſoluȝ eſt finite potẽtie. ¶ Sil'r. a. ⁊. b. ſunt duo eque calĩa ꝑ totũ ⁊ ſunt eq̃lia: quoꝝ vnũ eſt ĩfinite potẽtie ⁊ reliquũ ſolum finite potẽtie. ¶ Cõtra iſtas duas arg[r] ſic. Si. a. ⁊. b. ſint eq̃lia ⁊ ſint eque intenſa ꝑ totũ: igit̃ ꝑ q̃litatẽ iſtã ſunt eq̃lis potẽtie: igit̃ neutrũ eſt alio maioris potẽtie: igit̃ ſcđa 2clo falſa. ¶ Itẽ 2 p[am] arguit̃ ſic: qꝛ 2tingit accipe aliquid infinite calĩm per totũ ĩfinite potẽtie: vt ꝓbat̃ in 2ne 2[a]: ⁊ nõ eſt maior rõ de vno q̃ꝫ ad aliud: igit̃ ſi. a. erit ĩfinite calĩm per totũ ipm̃ erit ĩfinite potẽtie: g̃ p[a] 2clo eſt f'ſa. ¶ Oĩs tñ iſte 2nes ſequãtur ar[r] ſic. Sit. a. bipedale vnifor[r] calidum per totũ: ⁊ ſit in oĩ pte eq̃li equalr̃ de for[a]: ⁊ diuidat̃ in ptes ꝓportionales v'ſus aliud extremũ: ⁊ ponat̃ qꝺ caliditas ſcđe ptis ꝓpor[lis] vni[r] extẽdat̃ per ꝑmã ſicut nũc extendit̃ per ſcđaȝ: ⁊ ſic ẽt caliditas tertie ptis ꝓpor[lis] per ꝑmã ſicut nũc per tertiã ⁊ ſic in ĩfi[m]: ⁊ ſit oĩs talis 2ſilr̃ extẽſa ꝑ totã ꝑ[am] ptẽ ꝓpor[lem] ſicut nũc extẽdit̃ per ptẽ in qua eſt: quo facto illa ꝑma pars ꝓpor[lis] eſt ĩfinite intẽſe calĩa: qꝛ eque intẽſe denoĩabit illa caliditas que nũc eſt in aliq̃ alia pte ꝓportionali ꝑmã partẽ ſicut nũc denoĩabit ptẽ per quã extẽdit̃: qꝛ tũc erit 2ſilis extẽſio caliditatis illi[us] ſicut nũc eſt: ⁊ ſic oẽs ille caliditates ĩfinite denoĩabũt illaȝ ptẽ ꝓportiõaleȝ. Uel arguit̃ ſic. Ad oẽȝ punctũ ſcđe ptis ꝓpor[lis] eſt tãta inten[o] ſicut ad punctũ correſpõdentẽ ꝑme ptis ꝓpor[lis]: cũ igit̃ oĩs intenſio ad aliquem punctuȝ ſcđe ptis ꝓpor[lis] coextẽditur cũ intẽſione ad punctũ correſpõdentẽ ꝑme ptis ꝓpor[lis]: ſeq̃t̃ igit̃ qꝺ addita caliditate ſcđe ptis ꝓpor[lis] caliditati ꝑme ptis mõ dicto ad oẽm punctũ duplicabit̃ intenſio: ⁊ ſic addita caliditate tertie ptis ꝓpor[lis] ꝑme triplicabit̃ intẽſio ⁊ ſic in infi[m]: igit̃ in fine erit p[a] pars ꝓpor[lis] infinite intenſe calĩa ⁊ erit pedalis q̃titatis: ⁊ tũc erit ſoluȝ finite potẽtie: qꝛ tunc tantũ hẽiſe vel ita multũ habebit de for[a] illa ſicut nunc hȝ totũ: igit̃ tũc nõ erit maioris potẽtie q̃ꝫ nũc eſt totũ. 2ña tȝ iuxta põnem: ſequit̃ igit̃ 2clo p[a] pro fine tpis. ¶ Scđa ẽt 2clo pȝ ſic. Sit vnũ pedale vniforme: ad cui[us] oẽm punctũ duplicet̃ intẽſio ⁊ quadruplicet̃ intenſio ⁊ ſic in infinitũ: ⁊ ſic

p[a] 2.

2[a]

etiam

ciū duplex forᵉ qn̄ dupla ē itenᵉ: vt ſit nūc vnū inſiᵐ in cuiᵘ
oī pedali ſit equalr̄ de forᵉ: ⁊ ſint oīa pedalia eque itenᵃ: et
extēdātur caliᵗᵉˢ in oī pedali poſt pᵐ in p pedali ꝯſilr̄ ſicut
nūc extēdunt̄ in toto pedali cuiᵘ eſt. ⁊ ſit illud pedale. b. ⁊
ſeqꝛ̄ ꝙ ad oēm pūctū. b. duplicabit̄ ⁊ triplicabit̄ forᵉ: ⁊ ſic
in infiᵐ. ⁊ in p pedali tūc erit ifinita poᵃ: qꝛ totū illud peda-
le in ifiᵐ tūc debit de forᵉ ſicut nūc hʒ totū cōpoᵐ illud ifiᵐ.
Sit igit̄ vnū aliud pedale in caſu pcedente. a. ⁊ ſeqꝛ̄ ꝙ in
fine. a. ⁊. b. erūt eque itenᵃ: qꝛ vtrūqꝫ erit ifinite itenſum: et
erūt eq̄lia: ⁊ vnū. ſ. b. erit ifinite poᵉ: ⁊ aliud erit ſolū finite
3ᵃ ꝯclō poᵉ: vt argᵐ eſt. ſeqꝛ̄ ḡ ꝯclo. ❡ Itē ſeqꝛ̄ ꝙ. a. eſt ifinite cali-
dius. b. ⁊ iſta ſunt eq̄lis q̄titatis: ⁊ tn̄. a. eſt minoris poᵉ q̄
b. in q̄cūqꝫ ꝓporᵉ volueris: qꝛ ſit. a. ſic ponit̄ in fine caſus
ꝯnis pᵉ: ⁊ ſit. b. vnū vniforᵉ calidū finite itenᵐ maioris poᵉ
q̄. a. qḋ poſſibile eſt: eo ꝙ ꝯtingit accipe aliqḋ vniforᵉ cali-
duʒ finite itenᵐ alicuiᵘ poᵉ ⁊ aliqḋ in duplo maioris poᵉ: ⁊
ſic in infiᵐ: ponat̄ tūc ꝙ. b. ſit maioris q̄titatis q̄ pedalis.
Et ꝙ illud ꝯdēſet̄ ad pedale ſine oī alia variatione facta
in eo: ⁊ ſeqꝛ̄ ꝙ. b. tūc erit ſolū finite itenᵐ: qꝛ ad nullū pū-
ctū erit alia caliᵗᵃˢ q̄ nūc eſt ibi: nec in aliq̄ pte eius: eo ꝙ
ſolū erit ꝯdēſatio: ⁊. b. tūc erit pedalis q̄titatis ſicut. a. ⁊. a.
tūc erit ifinite caliᵐ: ⁊. b. ſolū finite itenᵉ calidū: ⁊ tn̄ tūc. a.
nō erit tāte poᵉ ſicut. b. eo ꝙ. b. tūc erit ſicut nunc eſt iuxta
4ᵃ ꝯclō pōnē. ❡ Itē ſeqꝛ̄ ꝙ. a. ⁊. b. ſunt oīno ſilia itēſiue ⁊ extēſi-
ue: ⁊. a. itēdet̄ in infiᵐ: ⁊. b. remittet̄ in ifinituʒ manētibᵘ il-
lis ꝯtiᵉ eq̄lis q̄titatis: ⁊ tn̄ iſta duo ꝯtiᵃ manebūt equalis
poᵉ. ponat̄ eiʒ de. a. vt ponit̄ in caſu pᵉᵗ ſit. b. oīno ſile. a. in
pᵗᵉ: ⁊ ſit caliᵗᵃˢ vtriuſqꝫ gr̄a argᵐ vt 4ᵉᶻ: tūc iſta caliditas
ꝯtinet duas medieᵗᵃᵗᵉˢ itēſiue: quaꝝ vtraqꝫ eſt v t. z. p totuʒ.
ponat̄ igit̄ per imaginaᵒᵉᵐ ꝙ vna illaꝝ medieᵗᵃᵗᵘᵐ que cōti-
net. ſ. z. extēdat̄ in medieᵗᵉ. b. ſic nūc extēdit̄ in toto: ⁊ alia
medietas illiᵘ caliᵗᵃᵗⁱˢ extēdat̄ in alia medieᵗᵉ. b. ⁊ ſeqꝛ̄ ꝙ
tūc totū erit itenᵐ vt duo: eo ꝙ ad oēm pūctū erit itenᵒ, vt
duo. Iterum igit̄ diuidat̄ iſta medietas. ſ. vt duo in duas
medieᵗᵃᵗᵉˢ itēſiue eq̄les ſicut eſt vna medietas: quaꝝ vnius
vna medietas extendat̄ in vna medieᵗᵉ. b. ⁊ alia in alia ſic
facta pᵃ exten ᵉ extēdebat̄ tūc p totū. ⁊ ſeqꝛ̄ ꝙ ad oēm pū-
ctū. b. tūc erit itenᵒ vt vnū ſolū: vt maniᵗᵉ pʒ. Iterū ḡ ſi fiat
diuiſio illiᵘ caliᵗᵃᵗⁱˢ: ⁊ in duas medieᵗᵃᵗᵉˢ que extēdant̄ per
medieᵗᵃᵗᵉˢ. b. ⁊ ſic in ifinitū. ⁊ pʒ ꝙ. b. in ifiᵐ remittet̄: ⁊. a. in-
tēdet̄ in ifiᵐ vt pus: tn̄ illa ꝯtinue manebūt eq̄lis poᵉ ſicut
nūc ſunt: eo ꝙ neutrū eoꝝ aliqd deꝑdet de forᵃ: nec acqui-
5ᵃ ꝯclō ret. ❡ Itē ſeqꝛ̄ ꝙ. a. ⁊. b. ſunt duo eque itenᵒ p totuʒ: quoꝝ
vnū eſt ifinite maioris quātitatis q̄ reliquū: ⁊ tn̄ iſta ſunt
eq̄lis potētie. ſint eniʒ. a. ⁊. b. oīno ſilia: ⁊ diuidat̄. a. in ptes
ꝓporˡᵉˢ: ⁊ ponat̄ ꝙ q̄libet pars ꝓporˡᵗᵉʳ rareſiat ad eq̄lita-
tē pme ptis ꝓporˡᵗᵉʳ deductis alijs mutationibᵘ in eo: ita. ſ.
ꝙ ad oēm pūctū maneat tāta itenᵒ ſicut nūc eſt ibi: ⁊ nō fiat
alia mutatio in. b. ⁊ ſit nūc finis tpis: ⁊ ſeqꝛ̄ ꝙ. a. per totuʒ
eſt eque itenᵐ cū. b. ſicut fuit ante eiᵘ maiorationē: ⁊ tn̄ iſta
ſunt eq̄lis poᵉ: eo ꝙ neutrū iſtoꝝ acqrit vel deꝑdit de forᵃ
vel de mā: ⁊ tn̄. a. eſt ifinite q̄titatis: ⁊. b. ſolū finite. ❡ Cō-
tra iſtā ꝯnē argᵉ ſic. Si enim. a. ſit ifinitū ⁊ vniforme aliq̄
gradu: ſeqꝛ̄ ꝙ totū. a. eſt ifinite maioris potētie q̄ vna eiᵘ
pars finita: ⁊ per ꝯn̄s totū erit ifinite poᵉ. ❡ Cōſilr̄ argui-
tur ꝯtra ꝯnē 3ᵃᵐ. Si eiʒ. a. ſit in ifinitū calidius. b. ⁊ eq̄lis
q̄titatis: ſeqꝛ̄ ꝙ totū erit maioris potētie q̄. b. qm̄ ſi eēnt
eque itenᵃ nō erit maior ratio q̄re. a. erit minoris potentie
q̄. b. qm̄ eadē rōne. b. erit potētie minoris q̄. a. igit̄ ſi. a. ſit
ifinitū itēſius. b. ⁊ eq̄lis q̄titatis cū iſto: ſeqꝛ̄ ꝙ. a. erit ma-
ioris potētie q̄. b. ⁊ nō minoris. igit̄ ſeqꝛ̄ ꝯnē eē falſam.
6ᵃ ꝯclō ❡ Itē ex hac pōne ſeqꝛ̄ ꝙ. a. eſt ifinitū q̄titatiue p totuʒ:
⁊ ifinite itenᵉ calidū: ⁊ tn̄ totū eſt ſolū potētie finite: que cō-
cluſio apparet ipoſſis: qꝛ ſi eēt ſolū q̄titatis finite ⁊ eēt ifi-
nite itēſum alicuiᵘ potētie eēt finite: igit̄ ſi ifinite q̄titatis

netio erit ifinite ptētie: qꝛ ifinitū maioris potētie erit q̄
ſi eēt ſolū finite q̄titatis. ❡ Hec tn̄ ꝯcluſio arguit̄ ſic. Sit
a. ifinite itenᵐ per totū: cuiᵘ poᵃ ſit ſolū finita: ⁊ ſit totū pe-
dalis q̄titatis ſicut erit in fine in caſu ꝯnis pme: ⁊ diuida-
tur illud. a. in ptes ꝓportionales: ⁊ rareſiat q̄libet pars ꝓ-
portionalis poſt pᵃᵐ ad eq̄litatē pme deductis alijs muta-
tionibᵘ: ita ꝙ ad oēm pūctū maneat eadē itēſio que nūc
eſt ad illū ⁊ nō acqrat̄ forᵃ: ⁊ ſequit̄ ꝙ totū erit infinitū in
fine ⁊c. ⁊ nihil acqret de poᵃ: qꝛ nihil de forᵃ: igit̄ ſeqꝛ̄ cō-
cluſio. ❡ Itē ſequit̄ ꝙ aliqd eſt finitū ſolū finite itenᵐ tn̄ 7ᵃ ꝯclō
ifinite potētie: qꝛ detᵉ vnū ifinitū vniforme: ita ꝙ in quoli-
bet pedali illius ſit equalr̄ de forᵃ: ⁊ diminuat̄ zᵐ pedale p
cōdēſationē deductis alijs mutationibᵘ q̄uſqꝫ fuerit in du-
plo minus q̄ eſt pᵐ pedale: ⁊ fiat 3ᵐ in duplo minus zᵒ per
cōdēſationē: ⁊ ſic in ifinitū: ita ꝙ in nullo illoꝝ pedaliū ſit
deꝑditio forme: ⁊ ſeqꝛ̄ ꝙ totū nūc ifinitū ꝯtinet de forᵃ: vt
pʒ: ⁊ nō erit deꝑditio forme: igit̄ in fine in infinitū de forᵃ
ꝯtinebit: ⁊ per ꝯn̄s tūc totū erit infinite potētie: ⁊ erit ſolū
finite q̄titatis: qꝛ bipedale vt notū eſt: ⁊ erit ſolū finite ca-
lidū ſicut in p. igit̄ ſeqꝛ̄ ꝯcluſio. ❡ Itē ſeqꝛ̄ ꝙ. a. per totuʒ 8ᵃ ꝯclō
eſt ifinite itēſius. b. ⁊ in infinitū maioris q̄titatis q̄. b. ⁊ tn̄
b. eſt ifinite maioris potētie q̄. a. ſit eiʒ. a. ifinitū ifinite itē-
ſum: vt ponit̄ in ꝯne penultima ſolū finite poᵉ: ⁊ ſit. b. fini-
tū finite itenᵐ ſolū infinite tn̄ potētie: vt ponit̄ in ꝯne ꝓxi-
ma eē poſſibile. ⁊ ſeqꝛ̄ ꝯcluſio maᵗᵉ. ❡ Itē ſequit̄ ꝙ. a. eſt 9ᵃ ꝯclō
ifinite calidū per totū: ⁊. b. ſolū finite frigidū eq̄lis q̄tita-
tis cuʒ. a. ꝙ. b. ſufficit corrūpe tpm. a. ſtat eiʒ vt argutū eſt
ꝙ. a. ſit ifinite calidū quātūcūqꝫ modice poᵉ volueris: ⁊. b.
finite frigidū quātumcūqꝫ magne potētie volueris: dum
tamen ſit finitum ⁊ ſolū finite intenſum.

Pro iſto igit̄ dī vt pus: ꝙ poᵃ attēdit̄ vniᵗᵉʳ penes
multiᵗᵘᵈⁱⁿᵉᵐ forme exiſtētis in mā: cum oēs
actiones ſint a forᵃ ⁊ nō a q̄titate: nec a mā vt cogſci pōt
de facto qn̄ plus eſt de forᵃ in vno q̄ in alio. ⁊ h̄ eſt quādo
plus eſt de mā in qua hᵒ forma inducet̄ in vno q̄ in alio:
vt pdictū eſt: eo ꝙ ideʒ agēs plus ꝓducit de forᵃ vbi plus
inuenit de mā: qꝛ aliter difficile vel ipoſſibile foret pone-
re cām q̄re ferrū ignitū fortiᵘ ageret q̄ quātitas eq̄lis flā-
me vel mā rarior: vt tāgebat̄ pus. ❡ Et etiaʒ eſt aduertē-
dū ꝙ tāte forme vel ita multe corridet tāta itenᵒ ⁊ tanta
extenᵒ ſolū per accīs: ita ꝙ ſtat formalr̄ ex caᵗᵉ nūc exiſte
in q̄titate aliqua fieri q̄litatē ifinite itēſam ſiue ifinite re-
miſſam: ⁊ ſilr̄ oī gradu eque itēſam. ⁊ h̄ in quacūqꝫ q̄tita-
te ſiue finita ſiue ifinita p diuerſas extēſiones ſuaꝝ ptiuʒ
adinuicē: vt in caſibᵘ poſitis illaꝝ ꝯnuʒ pdictaꝝ ſatis pʒ:
ita ꝙ eadē forᵃ ſtat formalr̄ cū maiori itenᵉ ⁊ minori: ⁊ cū
maiori extenᵉ ⁊ minori: ⁊ ſic dato ꝙ certa forᵃ que nūc eſt
in certa q̄titate eēt p imaginationē ad pūctuʒ: ſic ꝙ reſul-
taret q̄litas finite itēſa ⁊ ifinite modica ſeu indiuiſibilis
q̄titatiue: qꝛ tūc nō poſſet eē diſtinctio quo ad ptes q̄tita-
tiuas tāte poᵉ: tunc eēt totū ſicut nūc eſt. ❡ Et ad ꝯnes re-
ductas ꝯcedant̄ oēs de imaginatiōe. ❡ Et ad argᵐ ꝯtra pᵃᵐ
ꝯnē dī ꝙ eſt maior ratio ⁊c. qꝛ vnū finitū calidū infiᵐ pōt
ꝯtinere de forᵃ ⁊ tale eēt ifinite poᵉ: ⁊ ifinite caliᵐ pōt ſolū
finite ꝯtinere de forᵃ: ⁊ ſic illud pōt ſolū eē poᵉ finite: vt ꝓ-
babat̄ in ꝯne pᵃ ⁊ zᵃ. ❡ Et tūc ad zᵐ argᵐ ꝯtra zᵃᵐ ꝯnem
negat̄ ꝯn̄tia. a. ⁊. b. ſunt eque itēſa p totū ⁊ eq̄lia: igit̄ ſunt
eq̄lis poᵉ: qꝛ in caſu vnuʒ multū plus ꝯtinet de forᵃ q̄ re-
liquū: vt deductū eſt pus. ❡ Et ſic rn̄det̄ ad argᵐ factū cō-
tra 5ᵃᵐ ꝯnē. negat̄ ꝯn̄tia qn̄ ꝯcludit̄ ꝙ totū eſt ifinite ma-
ioris potētie q̄ aliq̄ eius pars finita: ⁊ per ꝯn̄s erit ifinite
potētie: qn̄. ſ. totū eſt ifinitū. Et cā eſt: qꝛ vt ibi deducit̄ to-
tū ſolū finitū ꝯtinet de forᵃ. ❡ Et ſic ad argᵐ ꝯtra 3ᵃᵐ ꝯnē
dī ꝙ lʒ. a. ⁊. b. ſint ineque itēſa ⁊ eq̄lia: eſt tn̄ ratio q̄re vnū
eſt multū maioris poᵉ q̄ reliquū: qꝛ multo plus ꝯtinet de

forma: vt deductū eſt. ¶ Et ſic ad argm ꝯtra 6am ꝯ̄nez ne-
gat̄ ꝯñia ꝙ lȝ eēt q̄titatis finite ⁊ eēt īfinite itēſum in ca
ſu ſtaret ipm eē potētie finite ſolū: ⁊ ſic ſtat īfinitū eē infi-
nite itenm eadē forma: dū tñ neutrū ſit alio maioris poten
tie. ¶ Et ſic ad 7am ꝯ̄nez ꝯcedit̄ ꝙ lȝ ſit finite calidū ⁊ fi-
nite q̄titatis īfinitū ꝯtinet de forᵉ per deductiōes priores.
¶ Et ſic etiā ſeq̄t̄ ⁊ ꝯcedit̄ 8a ꝯcluſio ꝙ lȝ.a.ſit īfinite itē
ſiue.b.ſtat.b.plus de forma cōtinere q̄̄.a.vt p̄us patuit: ⁊
ſic ſoluunt̄ oīa. ¶ Et ſilr̄ 9a cōcluſio: ⁊ per iſta multe con-
cluſiones apparēter ꝯ̄dictionez includere p̄nt obyci que
oēs diſſolui poſſunt per predicta ⁊c̄.

¶ Tractatus 9us De difficultate actionis.

SEquitur ingrere penes qd babet attē-
di difficultas actionis: varie
p̄a pō ſunt pōnes. Una.n.poſitio ponit̄ ꝙ attēdit̄ pe
nes ꝓportionē maioris inequalitatis: ita ꝙ illud
qd̄ a maiori ꝓporē agit maiorē difficultatē fa
2a pō cit. ¶ Et alia poſitio ponit ꝙ attēdit̄ penes ꝓportionē mi
noris inequalitatis: ſic ꝙ illud qd̄ agit a ꝓportiōe minori
maiorē difficultatē facit: q2 illud magis fatigat̄ in agēdo.
3a pō ¶ Sed 3a poſitio ponit ꝙ attēdit̄ penes poam illaz actio-
nem ꝓducētez: ita ꝙ ſemꝑ maior potētia agēs ſm vltimū
ſui maiorem difficultatem ꝓducit.

ꝯtra p̄m **Contra** p̄am pōnez arguit̄ ſic. data iſta ſequit̄ ꝙ oēs
potentie poſſent eq̄les agere difficultates ⁊
actiones. oēs.n. potētie ex eq̄libꝰ ꝓportiobꝰ p̄nt agere. ſed
ꝯñs eſt falſuȝ: q2 qcq̄d pōt poa minor facere, illud idē pōt
maior facere: ⁊ aliq̄d vltra. aliter enīȝ nō videt̄ qualr̄ vna
poa alia eēt maior niſi in plus poſſet facere. ¶ Itē ſequit̄
2a ꝙ maiorata poa agēte cōtinue ſm vltm ſue potētie remit-
tit̄ difficultas actionis ad nō gradū. maioret̄.n.poa ꝯtinue
agēs ſm vltm cuius reſia creſcat ad eq̄litatē ſue potētie. et
ſeq̄t̄ ꝙ ex īfinita modica ꝓportione aget aliq̄n: eo ꝙ reſia
maiorat̄ aliq̄n ad eq̄litatez potētie agētis: ⁊ per ꝯñs īfini-
te modice difficultatis fiet eius actio. ſȝ ꝯñs eſt falſum: q2
ex q̄ ꝯtinue aget ſm vltimuȝ ſue potētie: ⁊ illud in qd̄ aget
ſemꝑ erit maioris reſie ⁊ maioris: ⁊ ipm ꝯtinue erit maio-
ris potētie ⁊ maioris cōtinue: igit̄ difficultas ſue actionis
ꝯtinue maiorabit̄ ⁊ nō minorabit̄. ¶ Itez ſeq̄t̄ ꝙ remiſ-
3a ſo aliq̄ motu alicuꝰ ad nō gradum minorabit̄ difficultas
in īfinitū. ꝯñs falſum: q2 moueat̄.a.cū aliqua reſia ſicut le-
uādo aliqd̄ graue: cuiꝰ grauitas ꝯtinue maioret̄: ita ꝙ mo-
tus.a.ꝯtinue remittat̄ ad nō gradū: tūc illud graue ꝯtinue
erit maioris pōderis: ⁊ illud graue ꝯtinue plus itēdet̄ mo
ueri vͣſus deorſum: ⁊.a.ꝯtinue erit maioris potētie ⁊ maio
ris: igit̄ cōtinue poa.a.faciet maiorē difficultatē q̄̄ faceret
ſi nō itēderet̄ eius grauitas: eo ꝙ leuare ipm ꝯtīe erit ma-
ioris difficultatis ⁊ maioris: igit̄ difficultas acta ab.a.non
minorabit̄ in īfinitū. ipm.n.ꝯtinue faciet maiorē difficul-
tatē q̄̄ poa illiꝰ grauitatis ſufficiet ipm ipedire. ¶ Itez ſit
4a a.aliqd̄ graue: ⁊ ſeq̄t̄ ꝙ aliqd̄ eſt mouēs qd̄ nō pōt leuare
a.ꝙ ſit.b.⁊ moueat.b.c.graue: et ſeq̄t̄ ꝙ quodcūq; ſufficit
mouere.a.maiorez difficultatem faciet q̄̄.b.quod mouet
c.⁊ tamen ex infinita modica ꝓportione poteſt agere ali-
quod mouens.a.igitur poſitio falſa.

ꝯtra 2am **Nunc vo** arguit̄ ꝯtra 2am pōnē: q2 ex ia ſeq̄t̄ ꝙ oēs
poe eq̄lem difficultatē ſufficiūt agere: q2
oēs ex eq̄li ꝓporē ſufficiūt agere. ꝯñs eſt falſum: vt dedu-
ctū eſt prius. ¶ Itē ſeq̄t̄ ꝙ ex maioratione poe agētis ſm
2 vltm ꝯtinue minorabit̄ difficultas ſue actionis: eo ꝙ maio
rata poa ſtāte reſia maiorabit̄ ꝓportio īter poaȝ ⁊ reſiaȝ: ſed
ꝯñs eſt falſum. ex q̄.n. illa poa ꝯtinue maiorabit̄ det̄ pars
ſue poe eq̄lis ꝯtinue poe habite p̄us: ⁊ ſeq̄t̄ ꝙ illa pars ꝯti-
nue tātā actionē ⁊ difficultatē ſufficiat agere ſicut nūc ſuf-
ficit totū ⁊ ex ꝯ ꝯtīe maiorē difficultatē ſufficit totū agere

q̄̄ pars aliq̄ eiuſdē: eo ꝙ qcq̄d pōt pars illud pōt totū: igit̄
totū ꝯtinue maiorē ⁊ maiorem difficultatē aget maiorata
ſua poa ⁊ ipſo agēte ſm vltm. ¶ Itē tāta eſt difficultas po- 3
tētie vt 4or moꝰe reſiſtētiā vt duo gradꝰ morꝰ ꝓuenientē ex
ꝓporē dupla ſic eſt eidē mouere reſiſtētiā vt vnū gm morꝰ
ꝓueniēte a ꝓporē q̄drupla: ⁊ ſi ſic ſiue agat a ꝓporē maio-
ri ſiue minori: dū tñ ſm vltm ſue poe moꝰ eq̄lē difficultatē
facit. ¶ Itē ſic mouere a ꝓporē dupla cū reſia vt duo eſt 4
ſimplr̄ maioris difficultatis q̄̄ eſt mouere gm eodē ⁊ eadē
ꝓporē. ſ. dupla cū reſiſtētia vt vnū: eo ꝙ aliq̄d pōt moue-
re gm morꝰ vt vnū ꝓueniētis a ꝓporē dupla cū reſiſtētia vt
vnū qd̄ nō pōt mouere cū reſia vt 2o: igit̄ ex eadē ꝓportiōe
q̄nq; veniēt difficultates ineq̄les. ¶ Itē ſequit̄ ꝙ oīs poa 5
īfinitā difficultatē pōt facere: q2 ex īfinita modica ꝓporē pōt
agere. ¶ Itē ſi poa mouēs aliq̄ ſic̄ alterās vel aliq̄ alio mo 6
ui mouēs que nō debilitet̄ in agēdo: vt p̄us argutū eſt eē
verū: ⁊ ſeq̄t̄ ꝙ talis nō grauet̄ nec debilitet̄ in agēdo: igit̄
nō minorē difficultatē facit ia poa ſiue moueat a ꝓporē ma
iori ſiue minori. ¶ Itē data pōne ſeq̄t̄ ꝙ oē agēs infinitā 7
difficultatē facit: q2 in oī motu includit̄ morꝰ ſubduplus ⁊
ſubq̄druplus: ⁊ ſic in īfinitum: ſic̄ in omni ꝓporē includit̄ ꝓpor
tio ſubdupla ⁊ ſubq̄drupla: ⁊ ſic in īfinitum: ſic̄ ꝓportio q̄dru-
pla cōponit̄ ex duabꝰ duplis: igit̄ omne agēs ex ꝓporē aliq̄
ageret a medietate illiꝰ ꝓporōis: igit̄ omne agēs cū difficulta-
te aliq̄ agit ⁊ cuȝ ſubdupla. ¶ Uel idē eſt argm vbi aliq̄d
agit in aliquid in quo eius actio terminat̄ ad non graduȝ
ꝙ. ſ. infinitam difficultatem producet.

Ideo ponit̄ 3a poſitio ponēs ꝙ difficultas vltͣ at- 3a pō
tēdit̄ penes poaȝ ſm vltm agētē: ita ꝙ
ꝓporē ſic̄ vna poa agēs ſm vltm eſt alia agēte ſm vltm ma-
ioris poe: ita maiorē ꝓducit difficultatē. Id p3 per Cōmē.
p̄ celi.cō.16a. vbi dicit ꝙ cū voluerimus diffīre poaȝ alicuꝰ
ꝙ pōt mouere ꝑ.10.leugas: nō dicimus ꝙ hȝ poam mouē-
di ꝑ minus q̄̄ ꝑ.10.⁊ cū 1o dicit Cōmē. ꝙ poa ꝑ finē ſui actꝰ
diffinit̄: nō ꝑ id qd̄ eſt ante finē: ex q̄ innuit̄ poam terminari
ꝑ maximā actionē in quā pōt. ¶ Pro quo eſt aduertēdū Notabi-
ꝙ vbicūq; aliq̄ poa ſm vltm ſue poe agit ſiue cū reſia maio le
ri ſiue minori, ſtāte hō applicatione cū aliis paribꝰ, ſemꝑ
eq̄lez ꝓducit difficultatē ſic̄ data poa vt 4or: que cū reſiſtē-
tia aliq̄ moueret a ꝓporē dupla tātā ꝓciſe aget difficulta-
tē q̄tā ageret motu in duplo velociori cū reſia ſubdupla: ⁊
ſic q̄n maior poa ſm vltm ſui agit ab eq̄li ꝓporē ſic̄ minor
maior poa maiorē ꝓducit difficultatē: ſicut etiā mouet cuȝ
reſia maiori maiorē poaȝ applicādo. vna tñ difficultas pōt
dici tanta vni poe ſicut alia alteri poe: ⁊ ſic ſaluat̄ cōis mo-
dus loq̄ndi: vbi dī ꝙ tāte difficultatis eſt vni hoī debili por-
tare vnū lapidē paruū: ſic̄ hoī forti portare lapidē magnū:
qd̄ ſolū reſpectiue itellr̄. i. ꝙ ia difficultas quā facit ille de-
bilis eſt tātū ſibi ꝓportionabilis ſic̄ alia ē alteri: q2 vtraq;
difficultas poe agētis ſi ſm vltm agat eſt eq̄lis: ſic et leuare
eūdē lapidē eſt maioris difficultatis reſpectu poe minoris q̄̄ maio
ris: nō tñ itelligēdo ꝙ poa debilis leuādo paruū lapidē tātā
difficultatē abſolute facit ſic̄ poa maior. ¶ Cōtra qd̄ tñ for-
te arr̄: ſi leuare paruū lapidē foret ſimplr̄ minoris difficul
tatis q̄̄ leuare magnū: igit̄ reſpectu alicuiꝰ poe. ꝯñs vr̄ falſuȝ: q2
in qd̄cūq; agit idē agēs ſm vltm ſui eq̄lē difficultatē facit.
¶ Pro io dī ꝯcedēdo ꝯñs ⁊ ꝯñtiā: q2 data poa que vtrūq;
leuare pōt minorē poam applicādo pōt leuare paruū lapidē
q̄̄ magnū: ideo reſpectu illius minor eſt difficultas leuare illuȝ
paruū q̄̄ illū magnū: q2 eſt minus ſibi ꝓportionabile: ⁊ et
ſimplr̄ eſt difficultatis minoris: q2 minori poa pōt leuari illō
minꝰ graue q̄̄ aliud magis graue. ¶ Eſt et vlteriꝰ aduer- 2m
tēdū ꝙ dato medio vniformi reſiſtēte eſt dare maximā dif-
ficultatē que in illo medio fieri nō pōt: ⁊ hȝ ꝑ ſe ita. ſ. ꝙ il-
la difficultas nō ſit pars alteriꝰ. eſt.n. dare maximā poam

que in

que in illo medio mouere nõ põt ſicͭ poᵃ eq̄lis illi reſiᵉ: τ oĩ potẽtie ſibi eq̄lis difficultas corrñdet: igiĩ eſt dare maximã difficultatẽ que nõ põt fieri in iſto medio per ſe. ſ. illa difficultas que corrñdet poᵉ illi reſiſtẽtie eq̄li. ℂ Jtẽ cũ eſt vbi meᵐ eſt difforme nõ terminatũ alicubi ad nõ gᵐ reſiſtẽtie: q2 capiaĩ gradus ad quẽ terminaĩ ſua reſiᵃ ſm extremũ remiſſius: vel vbi eſt minima reſiᵃ. τ certũ ẽ q̄ poᵃ eq̄lis illi reſiſtẽtie eſt maxima que in illo medio agere nõ põt: τ p̄ ɔñs difficultas illi poᵉ corrñdẽs eſt maxĩa que in illo medio fieri nõ põt p ſe: vbi tñ ad nõ gᵐ totũ meᵐ vel pars medij eẽt terminata: oĩs difficultas in illo medio põt fieri: q̄ƺtũcũq3. n. modica poᵃ fuerit aliq̄ ipſa in aliq̄ p̄te illiᵘˢ motũ incipe ſufficiet τ mouere: eo q̄ alicubi iſiᵐ modicũ reſiſtit: τ oĩs poᵃ q̄ƺtũcũq3 fuerit magna in illud mediũ põt agere. in q̄dcũq3. n. aliqd põt agere oẽ maioris poᵉ cõſilr in illud idez meᵐ ſufficiet agere ſm ſui vltᵐ: vt ɔſtat. τ cuilibet poᵉ ſm vltᵐ agẽti certa difficultas corrñdet: igiĩ oĩ difficultate data põt maior fieri difficultas in illo meᵒ τ oĩ minor ſilr: q2 meᵐ terminaĩ ad nõ gᵐ: igiĩ ſeq̄ĩ intẽtũ.

3ᵐ ℂ Jtẽ nõnᵐ q̄ latitudo difficultatĩ eſt iſinita v̄ſus gᵐ iſiᵐ: τ v̄ſus nõ gᵐ ſolũ finita τ ẽ ɔ latitudo facilitatis eſt iſinita v̄ſus nõ gᵐ: τ eſt finita ſolũ v̄ſus gᵐ iſiᵐ. ꝥ ſic argᵉ: q2 ſi nõ ɔtra: latitudo poᵉ eſt iſinita v̄ſus gᵐ iſiᵐ: τ cuilibet gradui poᵉ certa difficultas in gᵘ ſibi eq̄lis corrñdet: q2 aliter ſeq̄tur q̄ aliq̄ poᵃ ſufficit plus agere q̄ƺ h3 poᵉˢ ad agendũ: ſi difficultas fuerit poᵃ maior: vel ſeq̄ĩ q̄ poᵃ nõ põt tãtũ facere ſicͭ h3 poᵉˢ ad agẽdũ: ſi. ſ. difficultas illi poᵉ corrñdens ſit ea in gᵘ remiſſior: q̄rũ vtrũq3 eſt falſum: igiĩ difficultas corrñdẽs alicui poᵉ illi nec͠io corrñdebit ſm itẽſionez. ſ. in gᵘ: q̄. ſ. ɔtinue equaĩr diſtabit a nõ gᵘ difficultatis ſicͭ poᵃ a nõ gᵘ poᵉ: igiĩ ſi poᵃ v̄ſus gᵐ iſiᵐ eſt iſinita: ſeq̄ĩ q̄ latitudo difficultatis v̄ſus gᵐ iſiᵐ erit iſinita: τ ſicͭ latitudo poᵉ v̄ſus nõ gᵐ poᵉ ſit ſolũ finita: τ facilitas penes paruitatẽ potẽtie attẽdiĩ: ſeq̄ĩ q̄ iter gᵐ quẽcũq3 facilitatis τ gᵐ iſiᵐ qui nõ põt poni altius a nõ gᵘ difficultatis eſt latᵈᵒ ſolũ finita: q̄d fuit p̄bãdũ. ℂ Ex iſtis ſeq̄ĩ q̄ duplaᵒ difficultatꝫ ſeq̄ĩ duplationẽ agentis ſm vltᵐ τ nõ vlr duplationẽ motᵘ: eo q̄ difficultas ſemp erit eq̄lis in gᵘ poᵉ illi ſm vltᵐ agẽti. vbi aũt poᵃ nõ agit ſm vltᵐ ſui vt p̄ducẽdo motũ aliquẽ cum aliq̄ reſiᵃ: tũc ɔtingit recipe poᵉˢ que ɔtaᵉ ſm vltᵐ agendo tãtũ motũ cum eadẽ reſiſtentia p̄duceret: τ ſic difficultas actionis acta ab illa maiori poᵃ attẽdiĩ penes poᵉˢ alteriᵘˢ que. ſ. illã ſufficit p̄ducere in agẽdo ſm vltᵐ: τ ſic dĩ q̄ idẽ eſt actio τ difficultas: τ actio ſic dĩ maior: q2 a maiori poᵃ ſm vltᵐ agente p̄duciĩ: tñ velocitas illiᵘˢ actionis: vlr ſeq̄ĩ p̄porᵉᵐ poᵉ motiue ſup poᵉˢ reſiſtiuas: ita q̄ actio eq̄lis aliq̄n põt eẽ magis velox: τ aliq̄n minᵘˢ velox ſicͭ eq̄lis caliditas vel alia forᵃ põt eẽ magis intẽſa vel minus iuxta diuerſam extẽſionẽ: vt p̄us dctm̃ eſt. vnde poᵃ maximã eius actionẽ vel difficultatẽ p̄ducit q̄ñ ſm vltimũ ſue potentie agit ſiue agat cum reſiſtẽtia maiori ſiue minori.

Actio et difficultas ſunt vnũ τ idem.

Contra 3ᵐ poſitionem.

Cõtra 3ᵃᵐ põnẽ arᵉ ſic. Difficultas actiõis duplabiĩ nõ duplata poᵃ agẽtis vbi eſt actio ſm vltimũ: igiĩ nõ attẽdiĩ penes poᵉˢ ſimplr τc̄. ɔñã iuxta põnẽ illã ſatis p3. argᵉ añs ſic. Sint. a. τ. b. duo mouẽtia eq̄lia in. c. medio vniformi: vnũ. ſ. in vna medieᵗᵉ. c. τ aliud in alia medieᵗᵉ a p̄porᵉ ſexqaltera ptrãſiẽs medietatẽ. c. i qua mouet in hora: tũc ſic. a. b. in hora faciẽt actiones eq̄les τ difficultates eq̄les: igiĩ difficultas cõpoſita ex illis duabᵘˢ erit dupla ad vtrãq3 illaꝝ p ſe: τ illa difficultas nõ eſt niſi ptrãſiᵗᶦᵒ. c. in hora: q2 nulla eſt actio cõpoſita ex iſtis duabᵘˢ actiõibᵘˢ niſi illa que eſt ptrãſiᵗᶦᵒ. c. in hora: igiĩ in duplo maioris difficultatis eſt ptrãſire. c. in hora q̄ƺ ptrãſire vnã medieᵗᵃᵗᵉ. c. in hora: τ ad ptrãſitionẽ. c. in hora reqriĩ motᵘˢ duplus ad motũ ptrãſitionis medieᵗᵃᵗᶦˢ. c. in hora: igiĩ ad duplationẽ motᵘˢ. a. vel. b. ſeq̄ĩ duplaᵒ diffiᵗᵃᵗᶦˢ vel actionis in. c. medio: τ ad duplationẽ motᵘˢ. a. in. c. nõ ſeq̄ĩ duplaᵒ ſue potẽtie vt cõſtat: q2 ſi etᵃ poᵃ maioreĩ ad ſuã ſexqalteꝝ motᵘˢ etᵃ duplabiĩ: igiĩ poſitio falſa.

2° ℂ Jtẽ arᵉ q̄ ptrãſire. c. in hora eſt iſinite difficultatis. vel q̄ ad remiſſionez motᵘˢ ad nõ gᵐ in. c. medio remittiĩ actio τ difficultas ad nõ g̃duz illiᵘˢ diſiũctiue vtraq3 pars repugnat põni: q2 poᵃ finita ſolũ totũ. c. in hora ſufficiet ptrãſire. ſ. poᵃ ſexqaltera ad. a. vt notũ eſt. Silr l3 motᵘˢ ad nõ gᵐ remitteĩ in. c. ſtãte reſiſtẽtia: illa poᵃ maiorẽ difficultatẽ ſufficit p̄duceĩ q̄ƺ poᵃ illi reſiſtẽtie equalis ſufficeret p̄duceĩ. Patet igiĩ illã ɔ̃nez illi põni repugnare. ℂ Et q̄ illa ɔclõ ſequaĩ ex põne argᵉ ſic. Capiantĩ poᵉ 4ᵒʳ eq̄les: q̄rũ q̄libet ſufficit mõ ſm vltᵐ ſui ptrãſire 4ᵃᵐ p̄tez in. c. hora: τ ſeq̄ĩ q̄ oẽs ille 4ᵒʳ in q̄druplo faciẽt maiorez difficultatez q̄ƺ vna illaꝝ p ſe: eo q̄ ſue difficulᵗᵃᵗᵉˢ ſunt eq̄les τ poᵉ ſilr. Uel ſic. Jlle poᵉ ſunt eq̄les ſm vltᵐ agentes: igiĩ faciũt tãtã difficultatẽ ſicͭ nũc ſufficit poᵃ q̄drupla ad q̄ãlibet illaꝝ: τ oẽs ille nõ faciũt aliq̄ƺ difficultatẽ niſi illã que eſt ptrãſire. c. in hora: igiĩ in q̄druᵒ maiorẽ difficultatẽ faciũt. a. b. ɔtaᵉ in hora que totũ. c. ptrãſibũt q̄ƺ vna illaꝝ 4ᵒʳ: τ ſic ſi capiantĩ octo potẽtie: q̄ruꝫ q̄libet ſufficit ptrãſire ſolã 8ᵃᵐ p̄tẽ in hora mouẽdo ſm vltimũ in hora: iſte octo facerẽt in octuplo maiorẽ difficultatẽ q̄ƺ vna illaꝝ p ſe: τ ſic in iſinitũ. Silr ſi cẽnt. 16. q̄rũ q̄libet ptrãſiret ſolã 16ᵃᵐ p̄tẽ illiᵘˢ ille facerẽt in decimoſexcuplo maiorẽ difficultatẽ q̄ƺ vna illarũ: τ ſic in infiᵐ: igiĩ difficultas tota que eſt acta ab. a. τ. b. que. ſ. eſt ptrãſitio. c. in hora eſt q̄drupla ad difficultatem actã ab vna illarũ poᵉᵐ vt 4ᵒʳ: τ octupla ad difficultatẽ actã ab vna illaꝝ octo: τ ſic in iſiᵐ: igiĩ in infiᵐ minor eſt difficultas ab aliqua illaꝝ acta difficultate acta ab. a. τ. b. τ ſic in iſiᵐ: modica erit aliq̄ illaꝝ difficultatũ: et tũc ſeq̄ĩ 2ᵃ pars diſiũctiue. ſ. q̄ ſm q̄ motᵘˢ erit remiſſior: ſic difficultas erit minor. vel ſi q̄libet ſit maior q̄ƺ reſiſtẽtia medij vt ponit poſitio: ſeq̄ĩ p̄ᵃ pars diſiũctiue. ſ. q̄. a. b. faciũt difficultatẽ infinitã ptrãſeũdo. c. adequate in hora.

ℂ Jtez ſeq̄ĩ illa ɔclõ q̄ poᵃ dupla ad. a. mouẽdo ſm vltᵐ 3° ſolũ in hora ſufficit ptrãſire. c. τ ſilr poᵃ q̄drupla ad. a. mouẽdo ſm vltᵐ ſolũ in hora ſufficit ptrãſire. c. τ ſilr poᵃ quadrupla ad. a. τ octupla: τ ſic in iſiᵐ in hora p̄ciſe ſufficit ptrãſire. c. τ tñ poᵃ minor q̄ƺ dupla ad. a. in hora ſufficit ptrãſire. c. que ɔcluſio manifeſte includit oppoſita. ſi. n. poᵃ minor q̄ƺ dupla ad. a. in hora ſufficit ptrãſire. c. igiĩ oĩs poᵃ dupla ad. a. vel maior q̄ƺ dupla ad. a. in minori tp̄e q̄ƺ in hora ſufficit ptrãſire. c. q2 idẽ meᵐ põt poᵃ maior in minori tp̄e ptranſire q̄ƺ poᵃ minor. ℂ Et q̄ ɔcluſio ſequaĩ arguiĩ ſic. Nã potentia dupla ad. a. faciet p̄ciſe in duplo maiorẽ difficultatẽ q̄ƺ. a. faciet in. c. τ illa eſt eq̄lis difficultatꝫ cũ difficultate cõpoſita ex actionibᵘˢ. a. τ. b. τ tota difficultas acta ab. a. τ. b. eſt ptrãſitio. c. in hora: igiĩ poᵃ dupla ad. a. p̄ciſe in hora ptrãſiret. c. Silr p p̄argũta poᵃ q̄drupla ad q̄ãlibet illaꝝ 4ᵒʳ poᵉᵐ p̄ciſe tãtã difficultatẽ ſufficit facere ſicͭ oẽs ille 4ᵒʳ potẽtie: ſ3 ille nõ faciẽt aliquã difficultatẽ niſi que eſt ptrãſire. c. in hora: igiĩ poᵃ q̄drupla ad q̄ãlibet illaꝝ 4ᵒʳ poᵉᵐ in hora p̄ciſe ſufficit ptrãſire. c. τ ſic in infiᵐ: igiĩ in iſinituꝫ maior poᵃ aliq̄ illaꝝ poᵉᵐ infinitaꝝ p̄ciſe in hora ſufficit ptrãſire. c. τ q̄libet illaꝝ eſt maior q̄ƺ reſiſtẽtia. c. g̃ in infinitũ magna poᵃ p̄ciſe in hora ſufficit ptrãſire c. et tñ poᵃ minor q̄ƺ dupla ad. a. ſ. ſexqaltera ad. a. in hora adeq̄te ptrãſibit totũ. c. vt ɔſtat: eo q̄ talis in duplo velocius moᵘᵉᵗ q̄ƺ. a. igiĩ ſeq̄ĩ ɔcluſio.

4° ℂ Silr iſinite modica eſt aliq̄ poᵃ aliq̄ƺ p̄tẽ. c. diuidẽs: q2 poᵃ in hora p̄ciſe ptrãſiẽs c. eſt minor q̄ƺ dupla ad. a. τ in infiᵐ minor illa poᵃ eſt aliq̄ illaꝝ: q2 in iſinitũ magna eſt p̄portio difficultatis acte ab a. ad difficultatẽ actã ab aliqua illaꝝ: vt p̄us arguituꝫ eſt: τ difficultas in gᵘ corrñdet potẽtie ipſam ſm vltᵐ agẽti: igiĩ

iſinita modica eſt aliq̄ illaꝝ poᵗᵉ mouētiū in.c.⁊ quelibet ſufficit agere in.c.igiť ſeqť ꝯcl'o ꝙ ois poᵃ q̄ntulacūq; modica ſufficit aliquā ꝑtē.c.mediꝫ diuidē:⁊ eadē rōne totū:ex q̄ totū eſt vniforme.¶ Et ex illo ſeqť ꝙ ois difficultas ꝑ ſe
5 pōt fieri in.c.medio vniformi:qꝛ ois difficultas correſpōdēs potentie maiori q̄ eſt reſiſtētia.c.mediꝫ vt pꝫ:qꝛ ois talis poᵃ in illud meᵐ ſufficit agere:⁊ ois minor poᵃ q̄ eſt.c.reſiſtētia ſufficit aliq̄ ꝑtē.c.diuidē:⁊ in eo ſm vlᵐ ſui mouē vt argutū eſt:igiť ſeqť ꝯcl'o que īmeᵗᵉ repugnat pōni ⁊ ꝓdictis.¶ Ideo forte pro ſolone huius argⁱ dī ꝙ ſic nulla eſt poᵃ ex.a.⁊.b.cōpoſita:ita ex difficultatib' ⁊ eoꝝ actionib' nulla eſt difficultas cōpoſita intēſiue:ideo difficultas acta ex.a.⁊.b.nō eſt dupla ad difficultatē actā ex vno illoꝝ.nulla.n.eſt talis ⁊c̄. ¶ Cōtra ar' ſic.ꝓbādo ꝙ illud nō ſoluit arᵐ:qꝛ ita eſt in q̄ntitatib' eq̄lib' ꝙ ſi ex duab' q̄ntitatib' eq̄lib' fieret vna illa foret dupla ad vtrāq; illaꝝ:lꝫ nulla ſit de facto ex duab' illis cōpoſita:⁊ ꝑ ꝯñs ſi ſint due difficultates eq̄les:ſi aliq̄ foret difficultas cōpoſita ex illis:illa foret dupla ad vtrāq; illaꝝ de ꝑ ſe:⁊ iſta nō eſt niſi ꝑtranſitio.c.in hora:qꝛ nulla foret difficultas alia ex iſtis acta. Cum igiť poᵃ ꝑtrāſiēs.c.adequate in hora nō eſt dupla ad.a.ſeqť igiť ꝙ difficultas nō attēdiť penes poᵗᵉ ⁊c̄.
¶ Itē ſit.d.minima difficultas que correſpōdet ꝑtrāſitiōi.c.
6 in hora:ꝙ talis ſit dāda manifeſte appꝫ:qꝛ aliq̄ eſt minima poᵃ que adeq̄te in hora ſufficit ꝑtrāſire.c.ſ.poᵃ ſexqualtera ad.a.tūc ar' ſic:ꝑ actiones.a.b.diuidet ſiue ꝑtrāſibiť c.adeq̄te in hora:igiť actiones.a.⁊.b.correſpōdēt.d.⁊ ille due ſunt duple ad vtrāq; illarū ſi ex his vna eēt cōpoſita:igiť d.difficultas eēt dupla ad difficultatē.a.⁊ poᵃ minor q̄ dupla ad.a.facit.d.ſ.poᵃ ſexqualtera ad.a. vt pꝫ:igiť difficultas nō attēdiť penes poᵗᵉ. ¶ Itē dēť difficultas minima
7 que ſit.e.que ſufficit diuidē medieᵗᵃᵗᵉᵐ.c.in hora:tūc ex q̄ .c. medietates ſunt eq̄les ⁊ eodē gᵘ reſiſtētes:ſeqť ꝙ diuidēs c.in hora facit duas difficultates:quaꝝ vtraq; eſt eq̄lis.e. ⁊ faciēs.d.difficultatē:diuidit vtrāq; medietatē in hora:⁊ ꝑ ꝯñs.d.ꝯtinet duo.e.⁊.d.non ſit a poᵃ in duplo maiori q̄ e.qꝛ.e.ſit ab.a.⁊.d.a poᵃ in ꝓporᶜ ſexqualtera maiori:vt no
8 tū eſt.igiť difficultas nō attenʳ penes poᵗᵉ. ¶ Itē ſic tāto motui ſicͭ eſt motus.a.in.c.correſpōdet.e.difficultas:igiť motui duplo in.c.due.c.difficultates correſpōdēt.ꝯñtia tenet:qꝛ mot' duplus ꝯtinet in ſe duos mot' ſubduplos:igiť ſi motui ſubduᵒ correſpōdet vnū.e.motui duᵒ correſpōdebūt duo.e.qꝛ in motu duᵒ duo.e.includunť:qꝛ cuilibet tali motui vnuꝫ e.correſpōdet:⁊ ad motū dupᵐ ad motū.a.in.c.nō reqriť poᵃ duᵃ ad.a.ſꝫ ſolū ſexqualtera vt ꝓus:igiť difficultas nō attē
9 diť penes poᵗᵉ vt ꝓus:igiť ⁊c̄. ¶ Itē ar' ꝯtra pōnē ſic. Ante qōcūq; iſtās aget.a.difficultatē iſinitā:qꝛ ad oēꝫ pūctū c.mouere eſt tāta difficultas ſicͭ eſt.f.gr̄a exēpli:igiť cū.a. ante qōcūq; inſtās ad iſinita pūcta mouebiť ꝓducet difficultates iſinitas eq̄les.f.igiť ſeqť ꝙ ante qōcūq; iſtās ꝓducet difficultates iſinitas. Uel ſic ar'. Ad oīa pūcta.c.mouē eſt.f.difficultas.ḡ ad oīa pūcta.c.vel ad iſiᵗᵃ pūcta.c.ſunt iſinite.f.difficultates:igiť ſi vna difficultas eēt cōpoſita ex iſtis/illa eēt iſinita:⁊ ante qōcūq; inſtās aget.a.tātū ſicͭ tūc illa eēt:qꝛ ad iſiᵗᵃ pūcta talia mouebiť.igiť ſeqť ꝯcluſio ⁊
10 falſitas pōnis:qꝛ.a.poᵃ eſt ſoluꝫ finita. ¶ Itē ar' ſic. Agat a.in.b.aliq̄ actione nāli calefaciēdo ipm:⁊ ar' ſic.q̄lꝫ pars b.vt inexiſtit toti certo gᵘ reſiſtit.diuidať ḡ in ꝑtes ꝓporcionales ⁊ ar' ſic:q̄lꝫ pars ꝓporˡᵉ.b.certo gᵘ reſiſtit:ſit igiť c.poᵃ eq̄lis ḡdui remiᵗᵐᵒ quo aliq̄ pars ꝓporˡᵉ.b.ꝑut ineſt toti reſiſtit ⁊ ar' ſic:ante qōcūq; iſtās aget.a.iſinitas difficultates:q̄rū q̄lꝫ erit maior q̄ eſt difficultas quā.c.ſufficit agere:igiť.a.aget difficultatē infinitā. ¶ Pro illo forte dī negādo ꝯñtiā:qꝛ ille difficultates cōicāt ſicut reſiᶜ ⁊ᶜ ꝑtis ꝓporˡᵉ cōicat cuꝫ reſiᵃ aliaꝝ. ¶ Cōtra argᵗ ꝙ h nō ſoluit argᵐ:qꝛ ſi eēnt iſiᵗᵉ alie:q̄rū q̄libet eēt tāte reſiᶜ eēntialis quāte eſt pars ꝓporˡᵉ.b.correſpōdēs reſiſtēs eēntialr ⁊ accidentaliter:q̄rū nullū iuuaret reliquū ad reſiſtendū:⁊.a.ageret ꝑ oīa illa iſinitā difficultatē ꝓduceret:qꝛ iſinitas difficultates eq̄les nō cōicātes.vel ſaltē q̄rū q̄libet eſt maior vl' tāta ſicut difficultas acta a.c.cum igiť in quācūq; ꝑtē ꝓporcionalē.b.nūc aget tantā difficultatē ſicut ageret.a.in aliquod illoꝝ illi parti correſpōdens. Sequiť igitur ꝙ ante quodcūq; inſtās producet difficultatem infinitam.

Pro oibus arᵗᵉᵐ ꝯtra pōnē ꝑ eſt itell'nᵐ ꝙ mot' ⁊ difficultas nō cōſequunť ſe:nec vnq̄ ad duplationē velocitatis in motu duplať difficultas niſi q̄n in duplatione mot' duplať poᵃ. ¶ Itē imaginādū eſt de difficultate actiōis vniformi in tpe ſic de motu vniformi in tpe vel cal'itate vniformi in ſubo:ſic ꝙ ſicut oēs ille calitates itēſiue ſunt eq̄les ⁊ nō extēſiue:ſic ēt q̄libet pars difficultatis ꝓducte ab eadē poᵃ nō debilitata agente ſm vlᵐ ꝯtiᶜ eſt cuilibet aliꝫ ꝑti actiōis ſue difficultatis ſm tpꝫ ꝓducte ab ea eq̄lis itenᶜ ⁊ nō extenᶜ:ſic ſi qd moʳ ꝑ totuꝫ tps ab eq̄li poᵃ ſm vlᵐ eq̄lē difficultatē ꝑ totū intēſiue ꝓducet illa poᵃ in meᵗᵉ hore ſicͭ in tota hora:ſicͭ eq̄lis eſt motus itēſiue ab vna poᵃ cū eadē reſiᵃ ꝓductis in medieᵗᵉ hore ſicͭ in tota hora. ¶ Itē ſic duo mot' a duob' mouētibus in paſſa oīno diuerſa:ita ꝙ illi mot' ad nullū eūdē pūctuꝫ ꝯcurrāt itēſiue/nō ꝯſtituūt maiorē motuꝫ q̄ vnus illoꝝ ꝑ ſe:qꝛ aliter oē mouēs ꝑ totū vno gᵘ iſiᵐ motuꝫ ꝓduceret:ita q̄n ſunt duo mouētia ex qb' vna poᵃ nō ſit nec vnū ꝑ aliud veloci' agit ex illis nō ſit vna actio itēſiue:nec vna difficultas:ſicͭ ſi vnus hō leuaret vnū lapidē hic ⁊ alt' Rome/nō ex actōib' ſuis ſit vna actio nec vna difficultas:q̄n tñ ex duabus potētijs ſit vna poᵃ:tūc eadē erit actio vtriuſq; illaꝝ:⁊ vna difficultas.⁊ ideꝫ eſt q̄n due actiones reᵘ eiuſdē ꝯcurrūt ſicͭ q̄n duo hoīes trahūt vnā nauē ſm vlᵐ illi duo maiorē difficulᵗᵃᵗᵉ faciūt q̄ aliqs illoꝝ ꝑ ſe. ¶ His intellectis rñdeť ⁊ ad argᵐ.⁊ ꝑ ad ꝑᵐ admittiť caſus ⁊ dī ꝙ nulla eſt difficultas cōpoſita ex.a.⁊.b.difficulᵇʸ itenᵘᵉ:qꝛ dato h ipoſ'e foret ſoluē arᵐ ibi factū:qꝛ n iſinitā difficultatē facerēt.a.b.diuidenᵗᵉ totū.c.in hora:vel iſiᵐ modicū faciet aliq̄ illaꝝ iſiᵗᵃᵉ poᵗᵉ:q̄ruꝫ q̄libet aliq̄ ꝑtē.c.diuideret:⁊ ſic nō ꝓcedūt arᵗᵃ nec ꝯñcs ꝯtra pōnē. ¶ Et ad argᵗᵃ facta ꝯ hāc rñſionē recitatā rñdeť ꝯcedenᵒ ſi eēt difficultas cōpoſita ex difficulᵇʸ.a.b.ꝙ illa eēt dupᵃ ad vtrāq; illaꝝ:ſꝫ negať ꝙ illa difficultas eſſet ꝑtrāſitio.c.in hora:qꝛ ſi ex difficultatib' iſtis fieret vna intēſiue:⁊ ex.a.⁊.b.potētijs fieret vna itēſiue:vel ſi hēet vt vna poᵃ itenᵘᵉ ex his cōpoᵗᵃ ſicͭ eſt ex duob' eque fortib' ſm vlᵐ cū eq̄li appliᶜ agētib' in idē:⁊ tūc.a.b.plus q̄ in duᵒ veloci' moueret q̄.a.vel.b.ꝑ ſe:eo ꝙ poᵃ eēt duplata:vt notū eſt. Uñ ſi ſit ꝓciſe duᵃ ꝓporᵉ ex qua moʳ aliqd in medio vnifor' diuidēdo totū in hora eſt in duᵒ maioris difficulᵗᵃᵗᵉ q̄ diuidē meᵗᵉᵐ in hora adeq̄te:qꝛ ad h faciēdū reqʳ poᵃ duᵃ:qꝛ tūc fieret mot' dupᵘ.⁊ ſi idē mouēs moueret ex minori ꝓporᶜ q̄ dupᵃ:nō eſt in duᵒ maioris difficultatis diuidē totuꝫ in hora q̄ diuidē meᵗᵉᵐ:qꝛ poᵃ minor q̄ dupᵃ h pōt facē:ſi tñ illud mouēs moueret a maiori ꝓporᶜ q̄ duᵃ:diuidē totū in hora eſt plus q̄ in duᵒ maioris difficultatis q̄ diuidē vel ꝑtranſire meᵗᵉᵐ in hora illa:qꝛ poᵃ maior q̄ dupla reʳ ad h faciēdū vt ꝯſtat:eo ꝙ reqʳ dupᵘ mot' vt ꝯſtat:⁊ duplato motu a maiori ꝓporᶜ q̄ duᵃ ꝓueniēte creſcit poᵃ vltra duᵐ. ¶ Et tūc ad arᵐ admittiť caſus ꝙ.d.ſit minima diffiᵗᵃˢ:⁊ dī ꝙ difficultas actiōis vel ꝑtrāſitiōis vel mutatiōis in tāto tpe vl' in tāto attēdiť penes vnā poᵗᵉ ꝯtiᵉ que mutatiōeꝫ eius in tāto tpe vel in tāto cū iſta reſiᵃ cōplē poterit ⁊ nō penes multas:qꝛ infiᵗᵉ poᵉ:q̄ruꝫ q̄lꝫ eſt maior poᵃ q̄ reſiᵃ.c.ſufficiūt adeq̄te ꝑtrāſire.c.totū in hora:⁊ in ſic erūt fiᵗᵉ difficulᵗᵃᵗᵉ ibi:q̄rū q̄lꝫ eſt:

diffiᵗᵉ

Pro ſolutione argᵗᵘᵐ.

Ad arᵗᵃ

diffite correſns poe eq̄li reſie.c.maior:⁊ ſic tota difficultas eēt ifia.ſic igiť ex iſtis potentys nō fit vna poa:ſic ſe hȝ illa ptrāſitio.c.ꝙ illi corrńdet vna diffitas que.ſ.eſt minima corrńdēs ptrāſitiōi eiuſdē in hora que penes vnā poam ſuffient h facē attēdit.⁊ ſic negat̄.a.b.facē illā difficultatē:ȝ tñ ptrāſeūt totū.c.in hora:qr.a.b.nō ↄſtituūt aliq̄ vnā poam itene nec faciūt vnā diffitem:ſi tñ aliq̄ eēt difficultas ex diffibus.a.b.cōpoſita illa eēt maior.d.⁊c̄. ¶ Et tūc ad arm aliud qñ are ⁊ poe ꝙ tūc.c.fit minima difficultas q̄ eſt ſufficiēs diuidere mete.c.in hora admittit̄:⁊ eſt illa q̄ corrńdet poe.a.ſi p ſe.a.ageret.Et negat̄ ꝙ illud diuidēs in hora facit duas diffites.c.ȝ diuidat vtrāq̄ mete:qa poa nō eſt dua.ȝ bñ ſequit̄ ꝙ agit dum motū. Nec ēt ex h ſeqt̄ ꝙ.d.ↄtinet duo.e.dato.n.io ſeqt̄ ꝙ.d.difficultas eēt ifia. Vel ꝙ p remiſſionē mote ad nō gm minorat̄ difficultas ad nō gm:cuius oppm eſt arm ſic.aliq̄ eſt difficultas diuidē 4as totius in hora:igiť diuidēs totū faceret 4or tales diffites:⁊ ſic in ifim de octo ⁊.16.ſic pus arguitū eſt:ꝙ infite poe pciſe in hora ptrāſirēt.c.q̄rū q̄libet faceret maiorē diffitem q̄ illa que corrńdet poe.c.⁊c̄. ¶ Ad aliō arm ↄcedit̄ ꝙ motui.a.in.c.corrńdet.e.difficultas.⁊ negat̄ ↄña vlterius.ḡ motui dupo ad iſtū motū corrńdēt duo.c.qa tāto motui in.c.nō corrńdet tāta difficultas niſi p accńs:qa ad tātū motū tāta poa ſic eſt.a.reqrit̄:ita ꝙ p ⁊ p ſe difficultas eſt tāta:qa poa eſt tāta:ita ꝙ motus nō eſt cā diffitatis niſi zarie:qa ad tātū motū corrńdet tāta poa in io meo reqrit̄:qa ſtat motus ſub oī gu imaginabili cū q̄cūq̄ magna vl̄ modica diffite:eo ꝙ ab ifita modica poa ifinitus motus poterit pduci:⁊ a q̄tacūq̄ magna poa infite puus motus vt ↄſtat.⁊ ideo ſi tātus motus ſit ſufficiēs cā tātē diffitatis optie pcederet argm:qd tñ hic eſt negatū ⁊c̄.Exm ad h eſt data certa reſia ⁊ certe pporoni vt ſexqaltere iter poas ⁊ illā reſias certe reqrit̄ gus poe:igiť duabus pporbus ſexqalteris iter poas ⁊ eādē reſias duo tales gu poe reqrunt̄:nō ſeqt̄ vt notū eſt. Vel magis ad ppom exceſſiui iter duo ⁊ vnū tātus motus corrńdet:igiť exceſſui duore illius poe corrńdet duplus motus:nō ſeqt̄ qr p accńs eſt ꝙ tāto exceſſui corrńdeat tātus motus:qr h eſt eo ꝙ tāto exceſſui reu vnius tāta ppor:ſ.dupa corrńdet:⁊ ſic nō pcedit arm. ¶ Ad aliō arm dī ꝙ ȝ ad oēȝ pūctū.c.mouere ſit tāta difficultas ſic eſt.f.⁊ imete poſt h ad infita pūcta mouebit̄.a.ḡ ifinitā diffite ⁊c̄.nō ſequit̄:qa nō faceret maiorē q̄ faceret moueri ad vnū pūctū tñ.Ex his.n.nulla difficultas itēſiue cōponit̄:ſic dato core moto gu vnifor p totū ad oēȝ pūctū eſt eq̄lis motus ſic ad aliquē:⁊ ſi ſic,ibi ſunt ifiniti motus eq̄les:⁊ totus motus nō eſt itēſior q̄ motus ad vnū punctū:qa ex illis motibus nullus vnus motus cōponit̄ itēſiue:⁊ ſic eſt de calitate vniformi extēſa p ſubm:qa tota nō eſt intēſior q̄ pars eius p quācūq̄ modicā ptē extēſam.
¶ Et ad ↄfirmatōēȝ ↄcedit̄ ꝙ ſi eēt vna difficultas cōpoſita ex his oībus itēſiue ꝙ illa eēt ifita.⁊ negat̄ ꝙ ante qdcūq̄ inſtās aget.a.tātā difficultatē ſicut io eēt:ȝ ad ifinita eius mouebit̄ pūcta:qr vt pus nō eſt aliqua difficultas ex his intēſiue cōpoſita. ¶ Et tūc ad vltimuȝ argm admittit̄ ꝙ.a.agat in.b.diuiſuȝ in ptes pporles:⁊ ↄcedit̄ ꝙ in omni parte pportionali illius agētis dum incepiſtit toti eſt certa difficultas.ſ.tāta ſic eſt agēs in totū.qcqd.n.ſufficit agere in ptē:ſufficit agere in totū cuius eſt pars:⁊ cuȝ agere in oēs ptes eſt ſolū difficultas finita:qa ex his nō eſt aliq̄ itēſiue cōpoſita ſic exēplificabat̄ prius de motu vniformi.Et ad ↄfirmatiōēȝ ↄcedit̄ ꝙ ſi eēt hō ifinite eq̄les reſiſtētie eēntiales ſic ſunt ille ptes:⁊.a.ageret p illas ꝙ ſolū difficultatē pduceret finitā:⁊ h ſi nulla iuuaret aliā ad reſiſtēduȝ.⁊ ſi hō oīa eēnt eq̄lis reſiſtētie eq̄lis diffitatis pciſe eēt agere in oīa ſic in vnū ſi nullū iuuaret aliud.oīs.n.poa que in vnuȝ poſſet agere in oīa poſſet agē nō extrīſe defectu ex pte applicationis:ſic dato luminoſo agēte p mem aliqd ſi ifita hō media eēnt eque bñ applicata ſic vnū:qd tñ non eſt poſſibile:ↄſilr ageret tūc in oīa ſic nūc agit in vnū ⁊ nō magis difficultaret:⁊ ſic eſt de alio. ¶ Eſt tñ itelligendū ꝙ ſi eēnt aliq̄ duo ⁊ agēs ageret p illa:ita tñ ꝙ vnuȝ eoꝝ eēt interceptū iter agēs ⁊ aliud:interceptū illud nctio iuuaret aliud ad reſiſtēdū ⁊ ipediret illud agēs:⁊ tūc erit maior difficultas agere in illa duo q̄ in vno illoꝝ per ſe:⁊ ſic q̄tū eſt ex pte poe nō repugnat qn ſilr equalr p ifinita ageret:q̄rū qdlibet erit eq̄lis reſie cuȝ alio ⁊ eq̄lis q̄titatis:ȝ defectus erit ex pte applicatōis:qa nō pōt ſilr applicari ad oīa eque bene ſicut ad vnū illoꝝ. ¶ Si tñ q̄reret̄ ex qua pporne agit agens in duo eq̄lis reſie. ¶ Rñdet̄ ꝙ nulla eſt ppor vna ſm quā agit in illa duo ſic illa duo nō ↄſtituūt aliquā vnā reſiam:ȝ ſm pporꝫ totius poe ad vnū agit in illud ⁊ ſm pportionē totius poe ad aliud cū applicatione illa agit in aliud:⁊ ſic in illa duo agit duas difficultates diuerſas in numero:⁊ nulla eſt difficultas vna ſm quā agit in illa duo:⁊ ſic nō procedit argm factum cōtra poſitionem.

Itez ↄtra eādē poſitionem.

Aliter arguo ↄtra pōnēȝ pbādo ꝙ q̄cūq̄ gu reſiſtētie dato mouē in duplo velocius cū q̄cūq̄ gu remiſſiori illo q̄ cū iſto gu eſt pciſe eq̄lis difficultatis:ſicut dato gu vt ſex non eſt aliqs remiſſior iſto gn mouē in duplo velocius cū iſto gu remiſſiori q̄ cū gu vt ſex eſt eq̄lis diffitatis. ¶ Silr qbuſcūq̄ duobus ineq̄libus gradibus reſie aſſignatis q̄cūq̄ pporne poſſibili mouē velocius cū vna q̄ cū alia eſt eq̄lis diffitatis:ſic ſignatis duobus gradibus ineq̄libus mouere in duplo velocius:⁊ ſilr in triplo velocius ⁊ in q̄druplo velocius:⁊ ſic in ifim:ſeu in ſexqaltero velocius ⁊ in ſexqaltero velocius:⁊ in ſexqquarto velocius:⁊ ſic in ifim deſcēdēdo cū minori q̄ cum maiori eſt eq̄lis diffitatis. (2a ↄclo) ¶ Prima ſic are. Det̄ vna reſia ſub gu aliq̄ q̄ ſit.c.tunc qſcūq̄ gradus remiſſior.c.det̄ iter illos eſt certa ppor:ſit igiť.d.gradus ille remiſſior:tūc q̄tācūq̄ magna vel modica fuerit illa ppor iter.c.⁊.d.talis pportio eſt poſſibilis iter aliquā poam maioreȝ.c.⁊.c.qa quātacūq̄ aliq̄ pportio fuerit magna vel modica in tāta ad im gm.c.pōt gradus aliqs ſe hēe.⁊ ſi ſic:ſit igiť.a.tāta poa:⁊ ſeqt̄ ꝙ in duplo velocius mouebit̄.a.cū.d.q̄ cū.c.qr ex q̄ pporꝫ.a.ad.c.⁊.c.ad.d.ſunt eq̄les pȝ ꝙ in duplo velocius ſufficeret.a.mouere cū.d.q̄ cuȝ c.⁊ illud mouēs in vtroq̄ ſm vltm eq̄leȝ difficultatē pducit:igiť mouere cū.d.gradu in duplo velocius q̄ cum.c.eſt eq̄lis difficultatis.Et ſic arge de illo.d.gradu:ita de oī alio gradu are:eo ꝙ qſcūq̄ gradus reſie det̄:ↄtingit accipe aliquā poas ſe hñtē in maiori pporne ad illū:⁊ in duplo maiori pporne q̄ ad reſiſtētiā datā q̄cūq̄ det̄:eo ꝙ data pporne iter illos gradus manifeſte:pȝ ꝙ ↄtingit accipere poam ſe hñtē in illa pporne ad illā reſiſtētiā maiorē.ſeqt̄ igiť pa cōcluſio. ¶ 2a ↄclo arguit̄ ſic. Sint.c.d.duo gradus reſiſtētie inter q̄s ſit aliq̄ pportio finita que ſit.f.tūc nō erit aliq̄ pportio poſſibilis qn in tāta velocius ſufficiat aliqua poa mouere in.d.q̄ in.c.Sit.n.aliqua poa.a.que ſe hȝ ad.c.gradū maiorē q̄.d.in certa pporne:⁊ ſeqt̄ ꝙ pportio.a.ad.d.ſe hȝ ad pporꝫ.a.ad.c.in certa pporne que ſit.e.minorat̄ igiť a.ad equalitatē.c.⁊ ſeqt̄ ꝙ ex q in ifinitū modica erit pportio.a.ad.c.manēte.f.pporne iter.c.d.ꝙ in ifinitū erit maior aliqñ pportio iter.a.⁊.d.q̄ iter.a.⁊.c.ↄña eſt ſatis manifeſta. Itez maioret̄.a.in ifim ſtātibus.c.d.⁊ ſeqt̄ ꝙ pportio iter.a.c.maiorabit̄ in ifim:⁊ ppor.a.ad.d.excedit pporꝫ a.ad.c.ſolū per pporꝫ.c.ad.d.⁊ ſic in via diminutionis ⁊ augmētationis erit oīs ppor imaginabilis iter pporꝫ.a.ad.d.⁊ pporꝫ.a.ad.c.qa.c.⁊ oīs maior ⁊ oīs minor. Vel idē eēt argm ſi.a.nūc eēt equale.c.⁊ maioraret̄ in infinitū:tūc in ifinitum modica incipet eē pportio.a.ad.c.⁊ fiet in ifinitū magna:eo ꝙ maiorabit̄ in infinitū exceſſa ab alia pportione.a.ad.d.p.f.pportiōeȝ tñ:igiť iter illas erit oīs

ꝓportio imaginabilis: igiť ſequiť φ non eẽt aliq̃ ꝓportio imaginabilis qn ſit accipe aliquã poam que in tãta ꝓpore ſufficiat velociꝰ mouere in.d.q̃ȝ in.c.ꝛ ageret ſm vlm ſue potẽtie: igiť ſm oẽm ꝓportionẽ velociꝰ agẽdo vel mouendo in minori reſiſtẽtia q̃ȝ in maiori eq̃lez difficultatẽ pôt hoȝ poa ꝓducere: qḋ fuit ꝓbãdũ. ¶ Cõtra iſtas ꝯnes ſic arguit.
3 ꝯnes. Sit.b.vna reſiſtentia: ꝛ.c.d. alie due reſiſtẽtie minores: quaꝝ.d.ſit minor: ꝛ.c.maior. Et arg ſic. Eq̃lis difficultatis eſt mouere in duplo velociꝰ in.c.q̃ȝ in.b.iuxta põnẽȝ ꝛ pam ꝯnẽ: igiť mouere cuȝ.d.in duplo velocius q̃ȝ cũ.b.nõ eſt eq̃lis difficultatis. ꝯña ꝑȝ: q2 ſi data poa in duplo velocius ſufficit mouere in.c.q̃ȝ in.b.ſequiť φ nulla talis nec minor: ſȝ bñ maior ſufficit in duplo velociꝰ mouere in.d. q̃ȝ in.b.igiť maioris difficultatis eſt mouere in duplo velocius in.d.q̃ȝ in.b.q̃ȝ eſt mouere in.c.in duplo velociꝰ q̃ȝ in.b. Añs ꝑȝ: q2 ſi.a.poa in duplo velocius ſufficiat mouere in.c.q̃ȝ in.b.ꝓportio: tũc.a.ad.b.equalis erit ꝓportioni b.ad.c.cuȝ igiť.d.ſit minor reſiſtẽtia q̃ȝ.c.ꝑȝ φ ꝓportio.a.ad.b.erit minor ꝓportiõe.b.ad.d.ꝛ per ꝯñs ꝓportio.a.ad d.nõ eſt dupla: ſed plus q̃ȝ dupla ad ꝓportionẽ.a.ad.b.et ſic motꝰ.a.in.d.nõ eſt duplus ad motũ.a.in.b.ſed plus q̃ȝ duplus. ¶ Itẽ ſi data reſiſtẽtia aliqua eq̃lis eſſet difficultatis mouere in duplo velociꝰ cũ omni minori illa q̃ȝ cũ illa: igiť ois poa que cũ illa reſia pôt mouere pôt cuȝ oi minori illa in duplo velociꝰ mouere. ꝯña ꝑȝ: q2 vniꝰ eq̃li difficultati corrñdet eq̃lis poa agẽs ſm ſuũ vlm: ita φ ſi ſint due actiones eq̃lis difficultatis qcq̄d pôt facere vnaȝ pôt facẽ reliquã. ꝯñs eſt falſum: q2 ſi.a.poa in due velociꝰ ſufficiat mouere cũ.c.q̃ȝ cũ.b.ꝛ.d.reſia eſt minor q̃ȝ.c.igiť plus q̃ȝ in duplo velociꝰ ſufficit moue cuȝ.d.q̃ȝ cũ.b.ꝛc̃. ¶ Itẽ ſit a.poa mouẽs vt.12.cũ reſia vt ſex: ꝛ.b.poa vt 4or mouẽs cũ reſia vt vnuȝ a ꝓpore q̃drupla: tũc in duplo velociꝰ mouebit.b.q̃ȝ.a.ꝛ.b.tãtã difficultatẽ nõ agit ſicut.a.eo φ.a.eſt maioris poe q̃ȝ.b.mouẽs ſm vlm ſuũ: igiť mouere in duplo velocius cũ reſia vt vnũ q̃ȝ cuȝ reſia vt ſex nõ erit eq̃lis difficultatis. igiť pa ꝯclo vĩ falſa.
ꝯtra 2am ¶ Nũc igiť ꝯtra 2am ꝯnẽ arg ſic. Sint.c.b.duo gradus reſie ineq̃lis: ꝛ ſic arg. ſi mouẽ in duplo velociꝰ cũ.c.q̃ȝ cũ.b.eq̃lis eſt difficultatis. ğ mouere plus q̃ȝ in 2o velociꝰ in.c.q̃ȝ in.b.eſt minoris diffitis. ꝯña arg ſic. Sit.d.vnus gdus reſie cũ quo.a.plus q̃ȝ in duplo velocius ſufficit mouere q̃ȝ in.b.ꝛ ꝑciſe in duplo velociꝰ in.c.q̃ȝ in.b.tũc.a.mouẽdo in.c.b.d.eq̃lez difficultatẽ facit: ſȝ ſi.a. plus q̃ȝ in duplo velociꝰ moueret in.c.q̃ȝ in.b.minorẽ difficultatẽ faceret q̃ȝ mouẽdo plus q̃ȝ in duplo velociuȝ in.d. q̃ȝ in.b.eo φ.d.reſia eſt minor q̃ȝ.c.ğ mouere in.c.in duplo velociꝰ q̃ȝ in.b.ꝛ plus q̃ȝ in duplo velocius in.c.q̃ȝ in.b.nõ eſt eq̃lis difficultatis. ¶ Itẽ ſi ſit eq̃lis difficultatis ꝛc̃. ſequiť φ quacũq; ꝓportiõe data / q̃cũq; poa pôt in illa ꝓportione mouere velociꝰ in.c.q̃ȝ in.b.vt argutũ eſt in arto 2o cõtra pam ꝯnẽ: ſed ꝯñs eſt falſuȝ vt ibi eſt oſtẽſum. ¶ Itẽ ſic. moueat.a.in duplo velociꝰ in.c.q̃ȝ in.b.ꝛ ſit.d.poa in triplo velocius mouẽs in.c.q̃ȝ in.b.ꝛ ſeqt φ.a.equalẽ difficultatẽ faciet mouẽdo in duplo velociꝰ in.c.q̃ȝ in.b.ſȝ.d.minorez difficultatẽ faciet q̃ȝ.a.eo φ.d.eſt minoris poe q̃ȝ.a.vt notũ eſt. igiť cuȝ eq̃lis ſit difficultas mouere in duplo velocius in.c.q̃ȝ in.b.ğ mouere in triplo velociꝰ in.c.q̃ȝ in.b. nõ eſt eq̃lis difficultatis: q2 eſt minoris difficultatis. ğ cõcluſio falſa. ¶ Itẽ ſi ſic: ſeqt φ mouere in ĩfim modice velocius in.c.q̃ȝ in.b.erit in ĩfim maioris difficultatis q̃ȝ mouere in ĩfim velociꝰ in.c.q̃ȝ in.b. Moueať eiȝ.a.in.b.c.ꝛ ſtãtibꝰ.b.c.minoreť ꝓportio motꝰ.a.in.c.ad motũ eiꝰ in.b.in ĩfim: ꝛ ſeqt φ.a.maiorabiť in ĩfim: q2 q̃diu erit.a.poe finite: exq̃ ꝯtie erit certa ꝓportio.b.ad.c.ſequiť φ ꝯtie in certa ꝓpore velocius ſufficiet mouere in.c.q̃ȝ in.b.igiť cũ in ĩfim minorabiť ꝓporo motꝰ ad motũ: ſeqt φ in infim maiorabiť ꝓportio.a.ad.b.ꝯña eſt ſatis nota. Et ſi ſic in ĩfinitũ maiorabiť.a.ꝛ per ꝯñs cuȝ ꝯtinue ageret ſm vlm: ſeqt φ ĩfinitã faciet difficultatẽ infinite modice velociꝰ mouẽdo in c.q̃ȝ in.b. ¶ Nũc igiť arg ex alia p̃te: ſtãtibꝰ.b.c.maioreť ꝓporo motꝰ.a.in.c.ad motũ eiꝰ in.b.in ĩfim: ꝛ ſeqt φ.a.ꝯtinue minorabiť: eo φ ꝓportio.b.ad.c.ꝯtinue erit tãta ſicut nũc eſt: ꝛ ꝓportio.a.ad.b.ꝯtinue erit minor q̃ȝ nũc eſt: igiť cuȝ ꝓportio.b.ad.c.in ĩfim erit maior ꝓpore.a.ad.b.igiť ſequiť φ ꝓportio.a.ad.b.in infim minorabiť ſtãte.b.igiť.a. minorabiť ad equalitatẽ.b.ꝛ ꝑ ꝯñs nunq̃ȝ faciet tãtã difficultatẽ ſicut faceret ſtãte ſua poa: igiť in ĩfim velociꝰ mouẽdo in.c.q̃ȝ in.b.faciet minorẽ difficultatẽ: igiť ſeqt ꝯcluſio. Ex qua ſequiť φ ex maiori ꝓportione mouendo velocius in.c.q̃ȝ in.b.minorem difficultatem faciet.

Pro iſtis di negãdo vtrãq; ꝯnẽ: di φ datis reſiſtẽ- Rñ
tijs ineq̃libꝰ mouere in duplo velociꝰ in vna q̃ȝ in alia non eſt ſimplr̃ eq̃lis difficultatis nec minoris nec maioris ſicut data reſiſtẽtia vt ſex ꝛ reſia vt vnuȝ poa vt.12.mouẽdo cuȝ reſiſtẽtia vt ſex multo maiorẽ difficultatẽ faciet q̃ȝ poa vt 4or mouẽdo in duplo velociꝰ cuȝ reſiſtẽtia vt vnũ: vt notuȝ eſt. ideo mouere in duplo velocius cũ reſia minori q̃ȝ maiori nõ eſt ſimr eq̃lis vĺ maioris difficultatis nec etiã minoris ꝛc̃. q2 deť.a.poa que ſe hȝ ad ſex: ſicut ſex ad vnũ.ſ.36.ꝛ ſeqt φ 1a mouẽdo in reſia vt vnuȝ in duplo velociꝰ q̃ȝ in reſia vt ſex eq̃lẽ difficultatẽ ꝑciſe faciet: eo φ eſt eadẽ poa mouẽs ſm vlm. Itẽ data poa maiori que ſit.d.que ſe habeat ad ſex in maiori ꝓpore q̃ȝ eſt ſex ad vnũ illa nõ in duplo velociꝰ ſufficit mouere cũ reſia vt vnũ q̃ȝ cũ reſia vt ſex: vt notũ eſt. Sit igiť.e.poa que in duplo velociꝰ ꝑciſe ſufficiat mouere cũ reſia vt vnũ q̃ȝ.d.cuȝ reſia vt ſex.ꝛ ꝑȝ φ eſt maior q̃ȝ.d.igiť maiorẽ facit difficultatẽ.e.mouẽdo in duplo velociꝰ cũ reſia vt vnũ q̃ȝ facit.d. mouẽdo in duplo tardius cũ reſia vt ſex. ğ riſio eſt vera. ¶ Eſt tñ ꝯcedẽdũ φ data reſia aliq̃ ꝛ vna remiſſio: i illa aliqs eſt certꝰ gradus quo gu mouere cũ illa maiori ꝛ gradu duplo cuȝ minori erit ꝑciſe eq̃lis difficultatis. eadẽ.n. eſt ratio poa illos duos motꝰ ꝓducẽs: qḋ ſic ꝑȝ. detur poa que ſe hȝ in ꝓporte que eſt inter illas 2as reſias ad maiorez reſias ꝛ ſit.a.potẽtia ꝛ.b.maior reſia ꝛ.c.minor: tũc nulla eſt poa.a.maior nec minor.a.que ſe hȝ ad.b.in illa ꝓporte: vt ꝯſtat: ꝛ ꝑ ꝯñs nulla eſt poa maior nec minor que ſe habet ad.c.in duabꝰ talibꝰ ꝓportionibꝰ mouere: ğ in.b.cũ gradu corrñdẽte ꝓporti.a.ad.b.ꝛ gradu duplo in.c.eſt ꝑciſe eq̃lis diffitis. Et ſic etiã aliqs gradus eſt quo gu mouere in.b.ꝛ gu triplo in.c.eſt eq̃lis difficultatis ſicut capta medietate ꝓportis inter.b.c.mouere gu iſti ꝓporti corrñdẽte in.b.ꝛ gradu triplo in.c.eſt ꝑciſe eq̃lis difficultatis. potẽtia.n.ſe hñs ad.b.in illa ꝓporte.ſ.in medietate ꝓportis inter.c.ꝛ.b.ſufficit mouere in.b.gradu iſti ꝓporti corrñdẽte ꝛ g̃du triplo ad c.illa eiȝ poa ſe hẽbit ad.c.in tribꝰ ꝓportiõibꝰ talibꝰ: ꝛ nulla maior nec minor: ꝛ ſic de omni alia ꝓporte: q2 quacũq; ꝓportio deť erit dare aliquẽ graduȝ motus quo gradu in maiori reſiſtẽtia mouere ꝛ gradu in illa ꝓporte itẽſiori in minori reſiſtentia mouere eſt equalis difficultatis. Et eſt dare gum quo gradu mouere in medio maiori ꝛ mouere in medio minori gradu ſe hñte ad gum motꝰ in maiori in illa ꝓpore nõ eſt eq̃lis difficultatis: q2 vt ꝓoſtẽſum eſt poa aliqua pôt mouere cũ reſia maiori aliq̃ gradu ꝛ gradu in data ꝓporte intẽſiori cuȝ reſiſtẽtia minori: ꝛ etiã aliq̃ poa pôt ita mouere cuȝ maiori φ ad motũ in ꝓportione data maiori in medio minori reqriť poa maior que eſt alia ab iſta. Oĩa hec facillime patent intuẽti: ꝛ ſic nõ ſunt 1e ꝯnes ſic hẽ ꝯcedẽde. ¶ Et ideo ad argumẽta ad ꝓbationẽ facta faciliter rñdeť negãdo ꝯñiam illã datis duabꝰ reſiſtẽtijs inequalibꝰ eadẽ potẽtia in duplo velocius ſufficiet mouere

ſm vltimū in vna ꝙ̄ in alia ⁊ eq̄lez difficultatē ꝑducet ſic mouēdo in iſtis:ḡ eq̄lis difficultatis eſt mouere in me° mi nori g° in du° ⁊ g° ſubdu° in maiori nō ſeq̄t ſic manifeſte p3. Sed multū maioris difficultatis eſt mouē in maiori ꝙ̄ in minori:ſ3 ſolū ſeq̄t ꝙ tāta velocitate mouē cū hac reſi° maiori q̄ta.ſ.illa po° pōt mouē cū illa maiori:⁊ tāta velocitate mouē in miori q̄ta.ſ.eadē pōt mouē in miori eſt eq̄lis difficultatis. Sic ēt dī ꝙ in ṗ arg° ſolū ſeq̄t ꝙ mouere certo g° in reſi° maiori quo.ſ.pōt po° mouē in t° ⁊ mouere g° du° ad illuz in me° min° reſiſtēte dato eq̄lis eſt difficultatis vt ṗus dcm̄ eſt. Et ſic nō ꝓcedit arg° pro ꝯcłone p°. ℭ Sic ēt rndeē ad ꝓbationē z° ꝯnis negādo ꝯñtiaz hanc nō eſt aliq̄ ꝓpor° gn in tāta pōt aliq̄ po° mouere veloci° in.d.ꝙ̄ in.c.igiē nō eſt aliq̄ ꝓpor° gn in tāta mouē veloci° in.d.ꝙ̄ in.c.eſt eq̄lis difficultatis ⁊c. S3 bn̄ ſeq̄t ꝙ nō eſt dare ꝓpor° gn eſt dare aliquē g° mot° quo g° mouere in maiori ⁊ in ꝓpor° data veloci° cū3 minori erit eq̄lis difficultatis. Et ſic nō ꝓcedūt ꝯnes:q2 nō erit aliq̄ ꝓpor° gn in tanta po° minor veloci° ſufficit mouē in minori reſi° ꝙ̄ po° maior in maiori ſicē ma° p3. Dē eni3.c.reſi° maior ⁊.d.minor:⁊ ſit.b.po° tāta ſicē eſt reſi°.c.ſit.a.po° maior.b.q̄ minorabitē ad eq̄litatē.b.⁊ ſeq̄t ꝙ.a.in ifi° tarde mouebiē in.c.⁊.b.certe velo° in.d.ꝯñ°:ſtent.n.nō variata.b.c.d.igiē in ifinitū magna e° ꝓpor° mot°.b.in.d.ad motū.a.in.c.⁊.b.ꝯñ° erit mioris po° ꝙ̄.a. Rurſus igiē maioreē.a.quouſq3 eque° moueaē in.c.ꝯñ° ſicut.b.in.d.⁊ ſeq̄t ꝙ in ifi° mo° erit ꝓportio mot°.b.ad motū.a.igiē nō erit aliq̄ ꝓpor° imaginabilis gn in tāta ſufficiat.b.mouere velocius in.d.ꝙ̄.a.in.c. ꝓpor°.n.motuū in i° caſu mioraē a g° infi° ſucceſſiue vſq3 ad nō g°.ſ.ꝓpor° mot°.b.in.d.ad motū.a.in.c.⁊.b.ꝯñ° erit mior ꝙ̄.a.iō in du° veloci° mouē in.d.ꝙ̄ in.c.nō eſt ſimplr eq̄lis difficultatis:ḡ nō ꝓcedūt ar°. ℭ Notādu3 tñ ꝙ l3 ſit dare maximā actionē quā po° pōt facē:nō tñ eſt dare maximū in qō pōt facē.ſ.ꝙ pōt agē in tantā reſi° ⁊ nō in maiorē. ℭ Itē ſi po° in agēdo ꝯñ° debiliteē nō eſt dare maximaz difficultatē quā faciet:ſ3 mimā ꝙ̄ nō:q2 nulla eſt maxima po° ex q̄ aget ⁊ illa minia difficultas quā nō agit eſt g° terminās illā po° quā h3.ſ. correſpōdēs po° ei° in ṗn° hūc q̄ ſi maneret tātā difficultatē facēt:pro oī tñ iſtāti eſt dare maximā diffi° quā tūc aget vł ſufficiet ⁊c. Et e° i° q̄ ꝓñc ſue po° in g° correſpondet:ḃ tñ nō obuiat ṗus dcis. ℭ Itē pro dcō Lō° vbi dicē ꝙ eſt dare max° qō ſor.ſufficit portare. Dōs eſt ꝙ portare pōt accipi z°.vno° pro detinē ne cadat ſicē data po° aliq̄ cui ſuppo° aliqd ḡue eq̄lis po° cū po° illa: tūc i° ḡue illā po° deprimē nō pōt ſtāre po° tāta.ſed qōl3 q̄ntū° illo ſufficēt illā po° deprimē:⁊ iō illa po° eſt minia que illud ḡue pōt portare.i.q̄ pōt illō ḡue detinē ne cadat:⁊ ſic dī ꝙ illō ḡue eſt max° qō illa po° pōt portare ad mo° loquēdi dcm̄. z° accipiē portare qō idez eſt ꝙ mo° localr cū aliq̄ ſupra poſito:⁊ ſic nō eſt dare max° pōdus qō ſor° portare pōt:ſ3 bn̄ eſt dare max° pondus qō pōt portare certa velo° data. Sufficit.n.Lō° ꝑ exēpla iducē ꝯnē quā intēdit.ſ.ꝙ agēs nāle agit maximā actionē quā ꝑ ſe pōt facere:cū q̄l3 po° nālis terminaē per g° actiōis eidez correſpōdētez in lati° actiōis ⁊ difficultatis vt ṗdictū eſt. multe ꝯnes pñt elici ex dcis ad quaꝝ tñ vtrāq3 pṫē ꝓbabiles pñt fieri rōnes q̄ ꝑ ṗdcā ſi bn̄ itelligant ſatis facilr ſoluūtur.

ℭ Tractatus decimus de maximo ⁊ minimo.

Sequitur ḡ ponere quaſdā reglas ꝯcernentes diuiſiones faciēdas ꝑ maximū ⁊ minimū quo ad ꝑtrāſitionē ſpatij alibi:aliqs tñ regulis gnālib° poſitis vt ſm h° diuiſiones faciēdas promptior faciliorq3 mīſſio hēaē. ℭ Et ṗ notāde ſunt ſigatiōes terminoꝝ. Ut maximu3 ſigat ſic.ſ.tātū ⁊ nō maī°: ⁊ minimū aliquātū ⁊ non min°. Et maximū qō nō.i.nō tātū ſ3 oē maī°:⁊ minimū ꝙ nō.i.nō tātū ſ3 oē min°. ℭ Qñ igiē hec diuiſio eſt aſſignāda re° po° actiue vnī° dabiē ꝑ affir° de max° ⁊ neg° de mini° vt iferi° patebit:eoipō.n.ꝙ po° actia pōt in aliō agē a fortiori in qōl3 min° pōt. Jō nō eſt dare mini° qō ṗt facē po° actia nec max° in qō nō pōt:q2 qō in.b. nō pōt agē nec in maī°.b.pōt a for°:ḡ ḃ nō eſt max° in qō nō ṗt. Et ſilr nō eoipō ꝙ ṗt in aliqō ṗt in oē maī°:nec eoipō ꝙ ṗt i qōcūq3 min° illo certo dato ṗt in illō:q2 po° eq̄lis ſue reſi° nō pōt agere in ſuā reſi° ſ3 in oēz minorē:iō illa eſt minia in quā nō pōt agere. Itē eſt dare aliquātū qō pōt in horā ꝑtrāſiri motu ꝓueniēte a ꝓpor° dupla vt notū eſt ⁊ vt iſerius patebit. ℭ Qñ tñ fit diuiſio re° po° paſſiue/illa eſt danda per affirmationē de minimo ⁊ nega° de maxīo.nō.n.pōt eſſe affirmatio maximi. Si.n.ab aliq̄ certo pōt pati a fortiori, a maiori iſto pōt pati:nec pōt eē negatio ō minimo. Si.n. ab aliq̄ nō pōt pati a fortiori a minori i° non pōt pati:ſed affirmatio de minio pōt dari:q2 data reſi° iſta pōt pati a maiori i° ⁊ mo° a ꝓpor° iſta ꝑ po° ſ3 vlr° agētez. Jō eſt dare vnā po° q̄ pōt mouere illā reſi° a ꝓpor° dupla nec minor illa hoc pōt facere cū ceteris parib° ⁊c.iō illa po°.ſ. dupla ad illā reſi° eſt minia a q̄ pōt moueri ex ꝓportiōe dupla. ſuſtinēda eſt ēt ps ne° de max°:data.n.reſi° iſta nō pōt moueri ab aliq̄ po° ſibi eq̄li ſ3 ab oī maiori ꝙ̄ eſt ſua reſi°:igiē po° alicui reſi° eq̄lis eſt maxia a q̄ nō pōt moueri illa reſi°. ℭ Ulteri° eſt notādu3 ꝙ oīs po° agēs in aliud debilitaē in agēdo vel nō debilitaē. Oē etiā mediū vel eſt vnifor° vel diffor°. ℭ Itez falſitas vel v̄ificatio ſubcōtrarioꝝ ad h° diuiſionez reqſita que fcā eſt re° pertrāſitionis ſpatij.ſ.ſic dī° illa po° pōt aliqō mediū pertrāſire:⁊ aliqō nō:pōt hēri duob° modis ſm intellm̄ aut rōne v̄tutis aut rōne q̄ntī°. Prio mō ſic eſt aliqō me° tātū reſiſtēs ꝙ hec po° illud nō poterit ꝑtrāſire. Aut itellr z° ꝙ eſt aliqō tāte q̄ntitatis qō rōne ſue magnitudis po° illa nō pōt ꝑtrāſiri. ſ3 illō eſt f'ſ3:ex q̄ q̄ntitas ſibi nō reſiſtit nō eſt aliq̄ mag°: quin maiora quacūq3 po° quātūcunq3 modica ꝑtranſiri pōt:eo ꝙ cu3 velocitate data pōt quātūcūq3 modica po° mouere vt notū eſt:iō iſto mō itelligēdo nunꝙ̄ v̄ificabūē i° ſubcōtraria. ℭ S3 ṗ mō intellr.i.ꝙ rōne reſi° hec po° pōt aliqd ꝑtrāſire ⁊ aliqd nō:⁊ ſiue fiat diuiſio re° po° debilitabilis ſiue indebilitabilis exiſte me° vniformi vlr eſt ps negatiua ſuſtinēda. Sit.n.caſus ille ꝙ.a.ſit aliq̄ po° indebilitabilis:⁊ ſit.b.eq̄lis ſibi po° debilitabilis:⁊ ſit.c.reſi° vniformis ⁊ ſibi eq̄lis:tunc.a.nō pōt diuidere.c. me° vniforme:ſed eē mediū vniforme min° reſiſtens eo pōt diuidere:q2 ad oē tale me° ſe h3 in ꝓpor° maioris inequalitatis:ḡ pōt aliquā ptē ei° diuidere:⁊ ſic totū cū ſit po° idebilitabilis. Similr.b.poterit i° idē me° ꝑtrāſire:q2 ex quo ſe h3 ad illud in ꝓpor° maioris ineq̄litatis pōt ei° aliquā partē pertrāſire:⁊ quātūcūq3 debiliteē pōt minus debilitari:ḡ totū ſufficit pertrāſire ⁊ nullaz partē.c.ſufficit.a.aut b.pertrāſire:igiē.c.eſt minimū in qō nō ſufficit ꝑtranſire. ℭ Itē ecōtra re° medij qō eſt po° paſſiua exiſte me° vniformi verificatis illis ſubcōtrarijs:ſiue fiat diuiſio in cōparatiōe ad po° debilitabilez ſiue idebilitabilez vt ſic dicendo.hoc me° pōt aliq̄ po° actiua pertrāſire ⁊ nō quel3 vlr ſuſtinēda eſt pars negatiua.ſ.ꝙ eſt dare maximā po° que hoc facere nō pōt:⁊ eſt illa que eſt ſibi eq̄lis reſiſtentie illius medij. Oīs.n.po° maior i° reſiſtētia pōt illud mediu3 diuidere: ſiue ſit potētia debilitabilis ſiue idebilitabilis:nō.n.ita modicū debilitaē gn min° poſſit debilitari. p3 igiē que pars eſt ſuſtinēda re° po° actiue limitate nō limitata reſi° medij: nec ꝑe limitato exiſte me° vniformi.

Sequitur ḡ ponere quaſdā reglas vbi eſt limitatio taz ad g° po° ꝙ̄ ad g° medij. ℭ Pro quo

Nota.de maximo qō poteſt aliqua potentia facere:nō de maximo in qō pōt facere.

Portare duplr.

Potētia actiua terminaē per maximū.

Potētia paſſiua ꝑ minimū.

p° reg°

z° reg°

eſt notãdũ ꝙ hõ mediũ aut eſt fi^m aut infi^m. Si ſolum ſit finitũ ⁊ vniforme altera ſubcõtrariaꝝ erit falſa diuiſione factã re^e potẽtie actiue in cõparatione ad ptẽ medij limitati nõ hñtis limitatiõeʒ ex pte tpis: vt ſic dicẽdo. aliquã pteʒ hui^9 medij vniformis põt hec po^a trãſire ⁊ diuidere ⁊ aliquã nõ: qꝛ ois po^a que põt aliquã ptẽ iſtius diuidere põt ⁊ totũ ſi ſit idebilitabilis vt ſatis pʒ. ⁊ ſi ſit dbilitabilis quãtũcũqʒ modice debilitet̃ põt ⁊ min^9 debilitari vt notũ eſt: ⁊ ideo quãcũqʒ ei^9 pteʒ põt diuidere ⁊ trãſire: ⁊ ideo nõ limitato tpe nõ valebit hõ diuiſio. Aliqñ tñ põt fieri tpis limitatio talis: aliquã pteʒ huius medij in tanto tpe tranſire

p^a reg^a põt ⁊ aliquã nõ: ⁊ tũc põt hõ ſubcõtraria v̄ificari. ¶ Pro quo po^r hec r^a. qñ fit diuiſio re^e po^e actiue limitate in cõparatiõe ad ptem medij vniformis limitati tpe limitato: po^a i^a exñte indebilitabili/iſtis ʒu^{ꝝ} v̄ificatis/vl'r eſt ſuſtinenda ps affirmatiua: ⁊ factã diuiſione re^e po^e debilitabilis cũ pdictis vl'r ſuſtinẽda eſt ps negatiua. Pꝛia ps hui^9 r'le pʒ. Sit. a. po^a indebilitabilis ⁊ ſit. c. me^m vniforme: ⁊ ſit. d. tps limitatũ: tũc ſi. a. nõ põt trãſire totũ. c. in. d. tpe/eſt dare maximã ei^9 ptẽ quã põt in eodeʒ. d. tpe ptrãſire. Moueat̃ eniʒ per totũ. d. tps ſm vltimũ ⁊ erit aliqd ab illo ptrãſitũ vt cõſtat: ⁊ id eſt maximũ qd ptrãſibit in. d. tpe vt notum eſt: cũ igit̃ ſua po^a nõ debilitet̃ ⁊ moueat̃ ſm vltimũ in. d. tpe/poterit illaʒ ptẽ ptrãſire ⁊ nõ ptẽ maiorẽ ipſi^9. c. ⁊ ideo iſta ps eſt maxia pars. c. quã in. d. tpe ſufficit ptrãſire. Pʒ igit̃ p^a ps regl'e. Et 2^a ẽt ſic ar^r. Sit. e. iſta ps. c. maxia quaʒ ſufficiat in. d. tpe tranſire. Et ſeqt̃ ꝙ ſi. b. po^a debilitabilis ſit eq̃lis. a. po^e idebilitabili ꝙ erit. e. minima ps quã. b. nõ ſufficiet trãſire in. d. tpe: qꝛ nõ ſufficiet trãſire. e. in. d. tpe: qꝛ ſua po^a debilitabit̃: que ſi nõ debilitaret̃ trãſiret totam. e. partẽ in. d. tpe: ſʒ oẽm pteʒ. c. minorẽ q̃ȝ eſt. e. ſufficiet in. d. tpe pertrãſire ⁊ diuidere: qꝛ ſi nõ debilitaret̃ trãſiret totã. e. ptẽ in. d. tpe: ſed quãtũcũqʒ modicũ debilitet̃ min^9 poſſʒ debilitari. ğ nõ eſt aliq̃ pars. c. minor q̃ȝ. e. qn pteʒ a^{re} i^a in. d. tpe ſufficit ptrãſire. ꝯña i^a nota eſt. Seqt̃ ğ manifeſte ꝙ. e. ps eſt minima quã. b. po^a debilitabilis in. d. tpe nõ ſufficit ptrãſire: qd fuit pbãdũ. ¶ Vñ gnal'r in medio vniformi limitato tpe iſtis ſubcõtrarijs v̄ificatis id qd eſt maxi^m ꝙ a po^a idebilitabili in i^o tpe poterit ptrãſiri erit mini^m ꝙ a po^a debilitabili illi po^e indebilitabili eq̃li nõ poterit in eodẽ tpe ptrãſiri. Iſta. n. po^a debilitata totũ id maxi^m non põt ptrãſire: ſed oẽm partẽ minorẽ vt ptis argutũ eſt de. a.

2ª reg^a b. potẽtijs. ¶ Itẽ factã diuiſione re^e medij vniformis limitati ꝙ eſt po^a paſſiua in cõparatiõe ad po^{as} debilitabiles limitato tpe ⁊ illis duob^9 ſubcõtrarijs reqſitis v̄ificatis/eſt vl'r ſuſtinẽda pars negatiua. Si. n. fiet hõ diuiſio in cõparatiõe ad po^{as} indebilitabiles vl'r: ſuſtinẽda eſt pars affirmatiua: ſicut ſic factã diuiſione illa ħ mediũ vnifor^e ab aliq̃ po^a indebilitabili in hora poterit ptrãſiri ⁊ nõ a q̃lʒ: ğ eſt dare minimã po^{am} a qua poterit. ſ. idebilitabili vel maximaʒ a qua nõ. dõm eſt ꝙ eſt dare minimã po^{am} a q̃ poterit: ⁊ eſt illa q̃ mouẽs ſm vl'r^m ipm in hora adeq̃te trãſiret ſicut manifeſte pʒ: qꝛ n^a minor totũ in hora trãſiret. ¶ Si tñ fiet iſta diuiſio re^e po^e debilitabilis. dõm eſt ꝙ eſt dare maximã po^{am} debilitabileʒ a q̃ nõ poterit ptranſiri ⁊c̃. Et eſt po^a debilitabilis eq̃lis illi po^e idebilitabili q̃ eſt minima q̃ ſufficit totũ in hora ptrãſire. nã iſta nõ põt totuʒ in hora pertrãſire: qꝛ debilitat̃. ois tñ po^a debilitabilis maior i^a ſi nõ debilitaret̃ in minori tpe q̃ȝ in hora totũ trãſiret: cũ nõ ita modice po^a debilitat̃ aliq̃ mouẽs qn min^9 poſſit debilitari: ğ ois po^a maior in hora cũ debilitatiõe totũ poterit

3ª reg^a trãſire. pʒ ğ r^a. ¶ Itẽ ſi fiat diuiſio re^e po^e idebilitabilis limitate ⁊ medij vnifor^{is} limitati in cõparatione ad tps vl'r eſt ſuſtinẽda ps affir^{ua}/⁊ re^e po^e debilitabilis ſuſtinẽda eſt pars nega^{ua}. vbi. g. factã iſta diuiſione. a. in aliq̃ tpe ptranſire

põt. b. me^m vnifor^e ⁊ nõ in quolʒ: eo ꝙ. a. ẽ po^a idebilitabilis: ğ eſt dare minimũ tps in quo illd ſufficit trãſire vl' maximũ in quo nõ. dõm eſt ꝙ eſt dare minimũ tps in quo. a. ſm vl'r^m mouẽdo ad extremũ. b. deueniet: ex quo ex certa pporti^{ne} mouebit̃: ⁊ ſm vltimũ pʒ ꝙ nõ in minori tpe illo poſſet totũ ptrãſire: iõ illud tps eſt minimũ in quo illud. a. idebilitabile totũ. b. me^m ſufficit trãſire: ⁊ illud tps cẽt maximũ in quo nõ poſſʒ po^a debilitabilis illi. a. eq̃lis totũ. b. mediũ trãſire. Illa. n. in illo tpe nõ põt totũ ptrãſire: qꝛ ſua po^a debilitabit̃ in i^o tpe: ⁊ in quolibʒ maiori põt. ſic. n. i^o. c. tũc ſic: in oi tpe maiori iſto qd eſt minimũ in quo. a. ſufficit pertrãſire ſufficeret aliq̃ po^a idebilitabilis minor. a. totũ trãſire. b. ſed quecũqʒ po^a minor. a. det̃/ſtat. c. ad g^m nõ ita remiſſuʒ debilitari/trãſeũdo. b. eo ꝙ quãtũcũqʒ debilitat̃ min^9 põt debilitari: ğ in oi tpe maiori iſto in quo. a. totum trãſiret ſufficit. c. totũ. b. trãſire. ⁊ ſic vl'r minimũ tps in q̃ po^a idebilitabilis mediũ aliqd poterit pertrãſire erit maximũ tps in quo po^a debilitabilis ſibi equalis totũ nõ poterit pertrãſire. patent ergo regule.

Quando aũt mediũ vnifor^e erit infi^m: aut enim fiet diſio re^e po^e in cõparatiõe ad pteʒ medij: aut re^e medij in cõparatiõe ad po^{am}: aut po^e ⁊ medij limitatoꝝ in cõparatione ad tps vel ad tpa: aut re^e po^e actiue pro qb^9 quedã regule ponunt̃. ¶ Si ğ me^m hõ vniforme ſit ifi^m ⁊ quo ad ptes nõ limitatas iſti^9 ifiniti ſubcõtrarijs verificatis fiat diuiſio: ſiue fiat diuiſio re^e po^e debilitabilis ſiue idebilitabilis/nõ limitato tpe: tũc ſuſtinẽda eſt ps nega^{ua}: ſicut ſic dicẽdo. aliquã ptẽ. b. medij vniformis ifi^{ti} ſuffic̃ hec po^a diuidere ⁊ aliquã nõ: vel ğ eſt dare maximã ptẽ quã ſufficit vl' minimã quã nõ: vtraqʒ illaꝝ ſubcõtrariaꝝ ſatis v̄ificabit̃: qꝛ nullã ptẽ ifinitã ſufficit hõ po^a pertrãſire. Iõ ps ifinita põt dici minima que nõ põt ab aliquo mobili in aliq̃ tpe finito pertrãſiri: lʒ tñ ille modus loquẽdi ſit ipropri^9: qꝛ ſigat ꝙ illã partẽ ifinitã nõ põt: ſʒ q̃lʒ illa minorẽ: ſigat ğ id infi^m eẽ paruũ per ħ ꝙ oẽ cõparatiuũ pſupponit ſuũ poſitiuũ. Vel põt ſic intelligi. pars ifi^{ta} eſt minima que nõ põt pertrãſiri ab ħ mobili: qꝛ iſta non põt ab ħ mobili pertranſiri: ⁊ ois pars finita põt: ⁊ ſic eſt illa nega^{ua} v̄a. Vel ſm q̃ſdaʒ qñ fit diuiſio re^e hui^9 ifiniti nõ valebit diſio: hec tñ diſio ſic tenet reſpcũ po^e idebilitabilis: ita tenet reſpcũ debilitabilis. pars. n. ifi^{ta} ab aliq̃ tali pertrãſiri nõ põt: ſed ois pars finita põt. Et tunc pʒ gnal'r qual'r reſpectu pertrãſitionis ſeu diuiſionis medij vniformis diuiſio aſſignãda eſt: ⁊ que pars eſt ſuſtinẽda.

Sequitur ğ ponere q̃ſdã re^{as} diuiſiones de maxio ⁊ minio q̃ȝtũ ad pertrãſitionẽ medij difformis ꝯcernẽtes. Pro quo pmi^9 eſt notãdũ ꝙ oẽ mediũ difforme: aut erit difforme ſm ſe totum: aut erit ita ꝙ aliq̃ ei^9 pars erit vnifor^{is}. ⁊ ſi ſic: aut ps maxie reſiſtẽs eſt vniformis ita ꝙ n^a ſit reſi^a in illo maior q̃ȝ ſit reſi^a illius ptis vniformis. vel ps maxie reſiſtẽs ⁊ hñs g^m inteñſiſſimũ iſti^9 reſiſtẽtie eſt ſm ſe totũ difformis: ⁊ ps i^a vnifor^{is} deficit a gradu inteñſiſſimo tot^9. Et ſi 2^m ſit ꝙ ad pũctũ aliquem ſit maxia ei^9 reſi^a: que reſi^a nõ eſt aliq̃ pars ei^9 vnifor^{is}: vel ğ mobile ſub eodẽ gradu ſub quo eſt maxia ei^9 reſi^a: vel ad quẽ termiat̃ maxia ei^9 reſi^a in pte maxie reſi^{te} icipiẽs motũ in i^o me^o. que po^a cẽt idebilitabilis aliqñ pp defectũ pportionis geſceret a motu ſuo ad extremũ vel ad aliũ pũctũ itriſecũ vel nõ geſceret ſic accidit in me^o vni^r difformi ⁊ alijs medijs difformib^9 ad g^m agẽtis termiatis. Nam lʒ mobile in eternũ moueret̃ nũq̃ȝ deueniet ad tãtũ g^m reſi^e: nec ceſſaret a motu pp defectũ ppor^{nis}: qꝛ nõ pt deuenire ad extre^m illd qd ẽ ſub eodẽ g^m ſic ẽ ſua po^a vt ſupra vbi tãgit̃ de motu locali plenius pro vtraqʒ parte diuiſionis eſt oſtẽſum. ¶ His viſis: qꝛ q̃lʒ ps diſiũctiue cuiuſlʒ ppoſite

Qñ me^m eſt ifinitũ vniforme.

p^a reg^a

Breuer ĩ regulis.

Qñ me^m eſt difforme.

Idẽ Ver.

in caſib⁹ diuerſis accidit:iō pro q̄l ʒ pte reſtat ponere rlas
ſingillatiʒ. Et p̄ pro illa pte vbi ē ps maxia vniformis pro
1a reg quo ponit̄ hec rl̄a. ¶ Si fiat diuiſio rem medij ſic diffor
q maxio g iſti reſiſ ſit aliq̄ ps vnifor i cōpatiōe ad pos
debilitabileʒ vl idebilitabileʒ/ nō fcā limitatiōe tpis vlr
ſuſtinēda eſt ps negatiua. vbi.g. Sit.b.tale me ⁊ fiat talis
diſio.b.pōt ab aliq̄ po ptranſiri ⁊ nō a q̄lʒ: vel ḡ eſt dare
maximā pos a q̄ non pōt:vel minimā a q̄ pōt. Uel ſic di
aliq̄ po pt ptrāſire.b.⁊ nō q̄lʒ. vl ḡ eſt dare minimā po
que pōt vel maximā q̄ nō pōt. Ille diſiones ſūt ↄuertibi/
les:iō videt̄ ⁊ di q eſt dare maximā pos ſiue debilitabi/
leʒ ſiue idebilitabileʒ a q̄ nō poterit ptrāſiri:⁊ iſta eſt po
q̄ reſiſ illius ptis vnifor adequat̄:ſic p̄dcm̄ eſt in p̄ r de
medijs vnifor tradita.iſta.n.po q̄ eſt maxia q̄ nō ſuffic
ptrāſire ptē illā vniformē eſt maxia q̄ nō pōt ptranſire id
difforme vt pʒ:eo q iſta ps maxie iter oēs iſtas ptes reſi/
2a reg ſtit. ¶ 2a eſt hec ſi fiat diſio rem poſ idebilitabilis diuiſiue
limitate in cōpatiōe ad ptē hui⁹ medij:cui⁹.ſ. g maxio nō
eſt aliq̄ ps vnifor:nō fcā limitatiōe tpis:tūc i po alicubi
hebit pportōem eq̄litatis. vel ḡ ps in q̄ mobile mouebit̄:vl
icipiēs ad punctū iceptionis mot⁹ eſt vnifor vel diffor.
Si vniformis rem poſ idebilitabilis ſuſtinēda eſt ps affir/
matiua:⁊ rem poſ debilitabilis ſilr. Si tn̄ iſta ps ſit diffor/
mis ita q po indebilitabilis ibi poſſet ceſſare a motu pp
defectū pportōis/ſuſtinēda eſt ps affirmatiua rem poſ idebi
litabilis:⁊ rem debilitabilis negatiua. Si vō in eternū mo/
ueret̄ hō po idebilitabilis nūq̄ ceſſans a motu ob defe/
ctū pportōis ceteris parib⁹ ſuſtinēda eſt ps negatiua tā rem
poſ debilitabilis q̄ʒ rem idebilitabilis:vt patebit in alijs re
gulis. Scda ps ar ſic. Si i ps ſit difformis p̄ mō terminata
ad g poſ in q̄ pte ſufficit mouē illa po idebilitabilis cēʒ
ptē hō ſuffic ptrāſire ⁊ nō pōt ptrāſire ptē maiorē:ibi eniʒ
ceſſat a motu.⁊ i eadē ps eſt minia q̄ a po debilitabili illi
poſ idebilitabili eq̄li nō poterit ptranſiri:ſic.n.po debili/
tabilis nec illa idebilitabilis pp defectuʒ pportōis vlterius
ſufficit mouē. Pria ps ēt pʒ:q̄cq̄d.n.poſſet pteʒ illi⁹ medij
vnifor qđ eſt ps toti⁹ medij ptrāſire/illud pōt totā ptē vt
dcm̄ eſt. Pʒ ḡ q̄lr faciēda ſit diuiſio vbi nullū me ſm ſe
totū eſt diffor:ſiue fiat diuiſio rem medij in cōpatione ad
pos diuiſiuas ſiue rem poſ diuiſiue in cōpatiōe ad ptē me/
3a reg dij/nō fcā limitatiōe quo ad tps. ¶ Iō dōm eſt vbi id dif
forme eſt ſm ſe totū diffor. Quaꝛ p̄ r eſt hec. Si fiat di/
uiſio rem medij diffor q po indebilitabilis ſub g extre/
mali eptis ſufficeret ptrāſire:vel in quo illa po ceſſaret a
motu pp defectū pportōis:que diuiſio fiat in cōpatione ad
pos diuiſiuas/nō limitato tpe rem poſ idebilitabilis eſt ſu/
ſtinēda ps affirma:⁊ rem debilitabilis pars negatiua. vbi.g. ſi
fiat talis diuiſio hō me pōt aliq̄ po ptrāſire ⁊ nō q̄lʒ:vel
ḡ eſt dare minimā que pōt vel maximā que nō pōt:⁊ hoc
loquēdo de me in quo po eq̄lis maxie ei⁹ reſiſ ceſſaret a
motu pp defectū pportōis.dōʒ eſt q eſt dare minimā pos
idebilitabileʒ q̄ illud me ſufficit ptrāſire:⁊ illa po eſt ſub
g terminātē illud me vbi eſt maxia eius reſi. illa.n.po
pōt totū mediū ptranſire ⁊ nō minor:eo q ois minor hīet
pportōem eq̄litatis ad aliquē pūctū citra extremū vt notuʒ
eſt:ḡ dato tali me eſt dare minimā pos idebilitabileʒ:⁊
po debilitabilis illi poſ eq̄lis eſt maxia po que id mediū
nō pōt ptrāſire:q2 ex quo illa po dbilitat̄ ceſſaret a motu
anteq̄ʒ ad extremū deueniret:⁊ omnis maior id totum ſuf
ficit pertrāſire:quia omnis maior ad omneʒ pūctū habet
pportionē maioris ineq̄litatis ⁊ quātūcūq̄ʒ modicū debi/
litet̄ min⁹ poſſet ipm debilitari:ḡ ſeqt̄ q illa po eſt ma/
xima po debilitabilis q̄ totū nō ſufficit ptrāſire. Ex autē
ſit dare tale me in quo po idebilitabilis pp defectuʒ p/
portionis ceſſabit a motu ⁊ remittet totuʒ ad nō gradum

ſatis pʒ:vbi tāgit̄ de motu locali. ⁊ pbat̄ q mediuʒ illud
pōt diſponi:ita q in illo po remittet motū ſuū ad nō gra/
dum.ſequit̄ ḡ regl̄a. ¶ Si fiat diuiſio rem medij ſm ſe to/ 4a reg
tum difformis:ita q mobile idebilitabile:lʒ in eternū mo
ueret̄ nunq̄ʒ ceſſaret a motu:cuiꝰ eſt mediū vnifor diffor
me ad graduʒ agētis terminatū:in cōpatiōe ad potentias
motiuas/nō limitato tpe quo ad p̄mā idebilitabileʒ ⁊ etiā
debilitabileʒ ſuſtinēda eſt ps negatiua.i.eſt dare maximā
pom que illud mediū nō ſufficit pertrāſire ſiue fuerit po
debilitabilis ſiue indebilitabilis: ⁊ eſt iſta po que maxie
ei⁹ adequat̄ reſiſtētie. Iſta.n.nō ſufficit totū ptrāſire:quia
illa lʒ in eternū moueret̄/ad extremū intēſius nūq̄ʒ deue
niret:nec alicubi a motu ceſſaret:vt ponit̄ in p̄ pte regl̄e.
Sed ois po idebilitabilis maior iſta totū ſufficeret ptrā/
ſire:q2 ad oēʒ punctū hīet pportōem maioris inequalitatis.
pʒ ḡ q iſta po eſt maxima indebilitabilis que nō ſufficit
totū tranſire. Silr po debilitabilis illi eq̄lis eſt maxima
que nō ſufficit totū trāſire. Ois ḡ maior iſta ſe hʒ ad oēm
graduʒ iſti⁹ reſiſtētie in pportiōe maioris ineq̄litatis:que
lʒ debilitet̄ nō regrit̄ ipſaʒ ad graduʒ eq̄leʒ gradui inten/
ſiſſimo hui⁹ reſiſ debilitari: ḡ ois po debilitabilis maior
illa ſufficit totū ptrāſire.pʒ ḡ regl̄a. ¶ Per iſtas ſupradi/
ctas regl̄as pʒ 2a ps ſcde r de medijs diffor. Si enim ſit
aliq̄ ps in qua illa po ceſſat a motu que eſt idebilitabilis:
illa ps eſſet maxia rem poſ indebilitabilis:⁊ ita eadeʒ pars
erit minima:que nō rem poſ debilitabilis alteri eq̄lis:nō tn̄
ſimplr ſed cū iſta determiatiōe terminata ad punctū ince/
ptiōis mot⁹.⁊ cā eſt:q2 ſit.c.alia ps difformis maxia quā.a.
po indebilitabilis ſufficit trāſire:⁊ ſit.b. po debilitabilis
alteri eq̄lis:tūc.c. nō eſt minia ps quā.b. nō ſufficit trāſire
ſimplr loquēdo:q2 eſt aliq̄ ps illius medij minor q̄ʒ eſt.c.
quā.b.nō ſufficit pertrāſire:q2.b. nō ſufficit trāſire aliquā
partē terminatā ad extremū intēſius.c.eo q ſua po debi/
litaret̄ in mouēdo:ideo.c.nō eſt ſimplr minima ps quā.b.
nō ſuffic ptrāſire:nec aliq̄ alia a.c.⁊ ideo eſt dare minimā
ptē terminatā ad pūctū inceptiōis mot⁹ quā nō ſufficit.b.
trāſire:q2 oēʒ ptē minorē q̄ʒ.c.terminatā ad pūctū iceptio/
nis mot⁹ ſufficit.b.tranſire:vt ſi iciperet motū in extremo
remiſſiori.c.ptis:tūc.c.ptē terminatā ad extremū remiſſi⁹
medij vel ad punctū inceptionis mot⁹ nō ſufficit.b.tranſi/
re:ſed oēm pteʒ.c.ptis terminatā ad pūctū iceptionis mo/
tus ſufficit.b.tranſire:q2 ad nulluʒ punctū talis ptis eſt tā/
ta reſi ſicut eſt po.b.ideo.c.ps eſt minima pars iſti⁹ me/
dij termiata ad punctū inceptionis mot⁹ quā.b.nō ſufficit
pertrāſire. Et ſic multe ſunt hō diuiſiones que neceſſario
debēt dari cū hō determinatiōe. pʒ ergo p̄ pars iſti⁹ ſcde
partis ↄclōnis. ¶ Alia pars iſti⁹ 2e ptis arguit̄ ſic. Ex quo
illud mobile nō q̄libet partē iſti⁹ medij difformis ſuffi/
cit pertrāſire ⁊ aliquā partē ſufficit:ergo aliqđ eſt punctuʒ
totius ad quē eſt reſiſtētia tanta ſicut eſt po iſti⁹ mobilis.
Sit ergo id mobile.a.b.mediū:ideo cuʒ certa determina/
tione eſt dare partē negatiuā tam reſpcū potētie debilita/
bilis q̄ʒ etiā reſpectu potētie indebilitabilis. eſt eniʒ dare
minimā partē ad punctū inceptionis mot⁹ terminatā quā
hoc nō poterit ptrāſire:⁊ nō eſt ſimplr dare minimā pteʒ
quā nō ſufficit pertrāſire:q2 nullā ptē terminatā ad pūctū
hīntē g eq̄lē poſ pōt iſta po trāſire: vt ſumit̄ in añte iſti⁹
diuiſionis:ideo quecūq̄ʒ ps det̄ falſuʒ eſt q illaʒ ptem nō
ſufficit hec po trāſire:ſed oēm minorē: q2 nullā minorem
illa que.ſ.terminat̄ ad extremū intenſius ſufficit ptrāſire:
ideo nō ſimplr dāda eſt iſta diuiſio:ſed cū determinatiōe
p̄dicta vt ſit.c.pars terminata ad punctū vbi icipit mo:⁊
ad graduʒ.a.poſ:tūc.c.pteʒ nō pōt.a. po debilitabilis trā/
ſire:q2 tūc ceſſaret a motu in.b.medio:qđ eſt cōtra aſſum/
ptū:ſed oēm ptē minorē.c.terminatā ad extremū remiſſi⁹:

ſufficit trāſire:per qd̄ extremū eſt pūctus inceptiōis motus vt notū eſt:eo q ad oēs punctū citraſz talis ptis hꝫ pporcionem maioris ieqlitatis:ideo.c.ps eſt minima ps.b.terminata ad extremū remiſſius ſiue ad pūctū iceptionis motꝰ quā.a.nō ſufficit trāſire:ꝛ eadez ps ēt eſt minima terminata ad punctū exceptiōis motꝰ q̄ a poª debilitabili.a. poᶜ indebilitabili eq̄li nō poterit ptrāſiri:ꝛ oēz ptē nō terminatā ad extremū intēſius.c.poterit hꝫ poª debilitabilis eq̄lis.a.tranſire:eo q ad oēz ptē talez hꝫ pporcionem maioris ineq̄litatis: ꝛ quātūcūqꝫ modicū volueris q debilitet minus poterit debilitari. Ideo cū hꝫ determinatiōe ſatis admittēda eſt diuiſio:pꝫ ḡ qualr̄ in difformibꝰ eſt dōz ſm̄ ſe tota admittenda eſt diuiſio ꝛ que ps ſuſtinēda eſt ſiue fiat diuiſio reª medij in cōparatiōe ad potētias debilitabiles ſiue indebilitabiles:nō limitato tpe ſiue reſpectu poᶜ limitate in cōparatione ad partem medij.

Quō fit limitatio ex pte tpis. 1ª regula Sequitur ḡ nūc dicere qualr̄ ſuſtinēda ſit diuiſio in hꝫ medijs fcā limitatiue ex pte tpis pro quo ponit̄ hec regula. Si fiat diuiſio reª medij difformis: qualr̄cūqꝫ difforme fuerit in cōparatiōe ad potētias motiuas limitato tpe ſubcōtrarijs ad illā diuiſionē requiſitis verificatis reª poᶜ idebilitabilis eſt ſuſtinēda ps affirmatiua: ꝛ reª debilitabilis ps negatiua vt ſi fiat talis diuiſio a.b.mediū difforme in hora ab aliq̄ indebilitabili poterit ptrāſiri ꝛ nō a quolꝫ.ḡ vel eſt dare minimā poam a qua in hora poterit ptrāſiri vel maximā a qua nō. dōm eſt q eſt dare minimā poam indebilitabilez a q̄ poterit ꝛ maximaz poam debilitabilez a q̄ nō poterit.pª ps pꝫ.Eſt.n.dare vnā poam que in hora adeq̄te illud mediū ptrāſiret mouēdo ſꝫ vltimū ſue poᶜ vt ꝯſtat:tūc exquo illa mouebit ſꝫ vltimū totū in hora trāſiens nulla minor pōt totuꝫ in hora ptrāſire. Ois.n.minor tardiꝰ moueret̄. Jō iª eſt minia poª idebilitabilis q̄ totū in hora ſufficit ptrāſire.pꝫ ḡ pª ps.Et 2ª ſic arḡ.Capiat̄ poª debilitabilis ipſi poᶜ idebilitabili eq̄lis:ꝛ ſeq̄t̄ q illa nō pōt in hora ptrāſire totū.b.Sed ois maior illa pōt illa.n.nō pōt:qꝛ mouendo debilitat̄.Et ois maior pōt:qꝛ quātūcūqꝫ debilitet̄ poª maior minꝰ poſſet debili-

2ª regula tari.igit̄ ſeq̄t̄ rª. ¶ Silr̄ ſi fiat diuiſio reª poᶜ date ſine limitate in cōparatione ad ptē medij difformis qualr̄cūqꝫ difforme fuerit tpe limitato:ꝛ ſubcōtrarijs verificatis reª poᶜ indebilitabilis ſuſtinēdo eſt ps affirmatiua. Et ſequitur q eſt dare maximā ptē que ab iſto in tāto tpe poterit ptrāſiri.Et reª poᶜ debilitabilis eſt ſuſtinenda ps negatiua: aliqn̄ ſimplr̄ ꝛ aliqn̄ cū determinatiōe. Pria ps pꝫ. Et ſit b.mediū difforme:ꝛ.a.poª indebilitabilis reª cuiꝰ fiat diuiſio:tunc ſi aliquā ptē.b.ſufficit ptrāſire ꝛ nō qualꝫ in hora eſt dare maximā eiꝰ ptē quā in hora ſufficit ptrāſire. Aliq̄ enīꝫ eſt ps quā in hora ptrāſiret ſꝫ vltimū ſui vt notū eſt. Jō talez ptē huiꝰ medij ſufficit ptrāſire in hora ꝛ nō maiorez:ideo iſta eſt maxīa ꝛ iª eadez eſt ſimplr̄ minima q̄ nō in aliq̄ caſu:ꝛ in aliquo nō eſt ſimplr̄ minima que nō: ſed cū certa determinatiōe. Pria ps pꝫ in caſu. vbi iſta poª indebilitabilis ptrāſcūdo ptē iſtiꝰ medij in hora nō remitteret motū ſuū ad nō gm̄:qꝛ tunc poª debilitabilis alteri poᶜ indebilitabili eq̄lis oēm ptez iſtiꝰ ptis que eſt maxima reª poᶜ date idebilitabilis ſufficit ptrāſire in hora vt notū eſt: qꝛ quātūcūqꝫ modice debilitet̄ minus poſſet debilitari:ꝛ totā ptez iſtā nō poterit ptrāſire: qꝛ debilitat̄ in mouēdo: ḡ iª ps eſt ſimplr̄ minima ꝛc. Pꝫ ḡ pª ps regl̄e. 2ª pars ēt pꝫ in caſu vbi poª idebilitabilis in trāſcūdo maximā ptē eiuā remittet motū ſuū ad nō gradū.hec enīꝫ ps ptrāſcunda terminat̄ ad gm̄ mobilis.ſ. iſtiꝰ poᶜ indebilitabilis: ꝛ ſi ſic poª iſtius poᶜ indebilitabili eq̄lis nullā ptez terminatā ad extremū intēſius illiꝰ ptis ſufficit ptrāſire:ꝛ ideo nō eſt dāda ſimplr̄ vt pdictū eſt:eo q exquo debilitat̄ ad aliquē punctū illiꝰ ptis hēet pporcionem eq̄litatis anteq̄ ad extremū deueniret:ꝛ iō falſum eſt q oēm ptē minorē illa pte maxīa quā ſufficit poª data indebilitabilis ptrāſire pōt etiaꝫ poª debilitabilis ptrāſire:ꝛ iō nō eſt dāda ſimplr̄ minima ps que nō ꝛc.ſed cū certa determiatiōe.ſ.q eſt dare minimā ptē iſtiꝰ medij termiati ad pūctū inceptiōis motꝰ quā nō ſufficit trāſire in hora:ꝛ iª eadē ps eſt maxīa reª poᶜ idebilitabilis ꝛc. ¶ Nota q qñcūqꝫ reª poᶜ indebilitabilis eſt aſſignare ptez affirmatiuā eſt limitatio tpis ꝯñs: ꝛ ecōtra qñcūqꝫ limitat̄ tps cū limitatiōe reſiſtētie difformis ſiue vniformis reª poᶜ idebilitabilis/eſt dare ptē affirmatiuā. ¶ Itē notādū q qñcūqꝫ reª poᶜ indebilitabilis eſt dare minimū qd̄ nō pōt id idez erit minimū qd̄ nō pōt poª debilitabilis illi poᶜ idebilitabili eq̄lis ſiue tps limitet̄ ſiue nō.Et vbi eſt dare maxīm reª poᶜ indebilitabilis tpe limitato eſt minimū qd̄ nō reª poᶜ debilitabilis ſibi eq̄lis.Et ſi tps nō limitet̄ ꝛ det̄ maximū reª poᶜ indebilitabilis illud idez erit minimū q nō reª poᶜ debilitabilis ſibi eq̄ iterūſi forte fiat diuiſio in cōparatiōe ad ptes medij difformis vl̄ eſt dare vnā ptē in qua nō remittet motū ad nō gm̄ ſucceſſiue:ſꝫ rōne reſiſtētie alteriꝰ ptis vlteriꝰ nō ſufficiat mouere:ſicut pꝫ in pª pte regl̄e ſcd̄e:qꝛ in tali caſu eſt dare maximaz pte illiꝰ medij tā reª poᶜ debilitabilis q̄ȝ indebilitabilis p has regl̄as. Si in caſu aliq̄ quereret̄ hꝫ diuiſio p trāſitionē ſpatij cōcernēs ſiue meᵐ vniforᶜ fuerit vel difforᶜ ſiue tēpore limitato:ſiue nō/ꝯcluſio eyci poterit ſatis clara. ¶ Intelligēduꝫ eſt ēt qñcūqꝫ ſit diuiſio in cōparatiōe ad poam determinatā reª medij determinati in cōpatione ad tps vlr reª poᶜ idebilitabilis eſt dare minimū tps in q̄ ab iſta illud meᵐ poterit ptrāſiri:ſiue meᵐ difforᶜ fuerit ſiue vniforme:ꝛ id idez tps erit maximū in quo a poª debilitabili illi equali illud mediuꝫ poterit pertrāſiri.

¶ Tractatus vndecimus de loco elementi.

Cum omni elemēto locus aliqs nālr̄ ꝯueniat oibuſqꝫ corporibus eiuſdē ſpēi idē pōt dubitari:nūqd exiſtente vna pte terre vltra cētrū/ reſiſtat ad totiꝰ deſcenſum ſeu ad deſcēſuꝫ ptis citra centrum. ¶ Et nō.arḡ ſic. Dato iſto ſeq̄ret̄ q terra vniformis mouens in medio pleno nō poſſet deuenire ad centrū deducēs intamēdus extriſecis:ita q cētrū eiꝰ fiat centrū mūdi: qꝛ ſi ſic iſinita modica eēt aliqn̄ pporcio ptis citra centrū ad ptē vltra cētrū:ꝛ pter h a meᵒ hēet certā reſiſtētiam: ḡ anteq̄ȝ cētrū eiꝰ fieret cētrū mūdi/ eēt pporᵒ eq̄litatis ꝛ ēt minoris ineq̄litatis inter poas motiuā ꝛ totā poas reſiſtētiam:quouſqꝫ ḡ cētrū eiꝰ fieret cētrū mūdi/nō moueret̄:ḡ ſeq̄t̄ ꝯ. ¶ Item ſeᶜ q lꝫ eēt vacuū vndiqꝫ citra cētrū vl̄ meᵐ nō reſiſtēs:ꝛ vna ps foret ex vna pte cētri ꝛ alia ps minor foret ex alia pte cētri:ita q illō moueret̄ ꝯtiᶜ ſm̄ pporcionem ptis citra centrū ad ptē vltra cētrū/nunq̄ȝ poſſꝫ deuenire ad cētrū:ita q eiꝰ meᵐ fieret meᵐ mūdi. ¶ Ad cuiꝰ pbationē ſupponat̄ q ſi iter aliq̄ ſit pporᵒ maioris ineq̄litatis ꝛ 4ª ps exceſſus maioris ſupra minꝰ auferat̄ a maiori ꝛ addat̄ minori: tūc iter illa in fine erit pporᵒ minor q̄ȝ ſubdupla ad pporcionē exñtez iter iſta duo in pnᵒ. Tunc.n.exceſſus maioris ſupra minꝰ minorabit̄ ad ſubduᵐ p eq̄lē cremētū minoris ꝛ decremētū maioris. Hec ſuppō arḡ. ad cuiꝰ pbationem pbant̄ duo nōbilia. ¶ Primū ſi ſint 4or t̄mini ꝯtiᶜ pporlem arithmetice: pporcio maxīa que.ſ.eſt inter terminos duos minores eoꝝ quattuor per plus excedit ſcd̄az pporcionez q̄ȝ iſta ſcd̄a excedat tertiā q̄ eſt minia illaꝝ triū pporcionum que ſunt inter illos quattuor terminos:vt ſi iſti eſſent q̄tuor termini continue pporlem arithmetice ſicut.vij.vi.v.iiij.tunc inter.v.ꝛ quattuor eſt maior pporcio q̄ȝ iter.vi.ꝛ.vij. Ideo pbanduꝫ eſt q pporcio.v.ad.iiij. per maiorē pporcionez Regula proportionū.

excedit ꝓportionē.vi.ad.v.ꝙ̄ iſta proportio.vi.ad.v.excedat ꝓpor^{nē}.vij.ad.vi.Et p̄mo ar^r in iſtis terminis:⁊ deinde ad idē gnāl^r.Sit eniz.e.termin^9 ſe hn̄s ad.v.vt.v.ſe hȝ ad iiij.ſ.in ꝓpor^{ne} ſexquarta:⁊ ſeq̄r ꝙ.e.cōtinet.vi.⁊ quartā vnitatis ꝑ vnā ꝓponeȝ ꝓbati:vbi p̄mo tāgit de motu locali.Si ad duos terminos ineq̄les ſint ꝓpor^{nes} eq̄les ſicut vn^9 eſt alio maior:ita eſt exceſſus termini ad terminū illū maioreȝ cōparati.Ponat ergo ꝙ.f.ſe hēat ad.vi.ſicut.vi.ad.v.vȝ in ꝓpor^{ne} ſexquigna:⁊ ſeq̄r per regulaȝ allatam ꝙ.f.ꝯtinet.vij.⁊.v.ptē vnitatis. Ex his ſic ar^r. Propor^o.e.ad.v.excedit ꝓportionē.vi.ad.v.per ꝓpor^{nem}.e.ad.vi.co ꝙ ꝓpor^o.e.ad.v.componit ex ꝓpor^{ne}.e.ad.vi.⁊.vi.ad.v.⁊ ꝓpor^o.v.ad.iiij.eſt eq̄lis ꝓportioi.e.ad.v.per poſitū:ergo ꝓpor^o.v.ad.iiij.excedit ꝓpor^{nem}.vi.ad.v.per ꝓportioneȝ e.ad ſex. Et ſimil^r ꝓportio.f.ad ſex excedit ꝓportionem vij.ad.vi.per ꝓpor^{nem}.f.ad.vij.ſed ꝓportio.e.ad.vi.eſt maior ꝙ̄.f.ad.vij.quia.e.excedit.vi.plus ꝙ̄.f.excedat.vij.vt pȝ:⁊.e.eſt termin^9 minor ꝙ̄.f.g̊ ꝓpor^o.e.ad.v.excedit proportionē.vi.ad.v.per ꝓpor^{nem} maiorē ꝙ̄ ꝓportio.f.ad.vi.excedat ꝓpor^{neȝ}.vij.ad.vi.cū ergo ꝓpor^o.v.ad.iiij.ſit eq̄lis ꝓportioni.e.ad.v.per caſuȝ:⁊ ꝓportio.vi.ad.v.eſt eq̄lis ꝓportioni.f.ad.vi. Pȝ ꝙ ꝓpor^o.v.ad.iiij.per maioreȝ ꝓportionē excedit ꝓpor^{nem}.vi.ad.v.ꝙ̄ ꝓpor^o.vi.ad.v.excedat ꝓpor^{nem}.vij.ad.vi.Et in iſto exēplo pȝ veritas iſti^9 notabilis. ❡ Eadeȝ g̊ regl'a gnāl^r ar^r ſic.Sint.a.b.c.d.q̄tuor hꝫ termini ꝯtinue arithmetice ꝓpor^{les}:ita q.a.termin^9 ſit minus:⁊.d.maius vel maxim^9.Et ar^r ꝙ ꝓpor^o.b.ad.a.per ꝓpor^{nem} maiorē excedit ꝓpor^{nem}.c.ad.b.ꝙ̄ ꝓportio.c.ad b.excedat ꝓpor^{neȝ}.d.ad.c. Detᷣ eniz.e.termin^9 qui ſe hēat ad.b.ſic.b.ſe hȝ ad.a.⁊ ſit exceſſus oiuȝ.g.inter iſtos q̄tuor terminos:⁊ notū eſt ꝙ.e.eſt maius.c.eo ꝙ ꝓportio.c.ad.b.eſt minor ꝓportione.b.ad.a.ſicut g̊.b.eſt maius.a.ita exceſſus.c.ſup.b.eſt maior exceſſu.b.ſupra.a.per regulā preallegatā.Sit g̊.f.ſe hn̄s ad.c.ſicut.c.ſe hȝ ad.b.⁊ ſeq̄r ꝙ ꝓpor^r ſicut.c.eſt maius.b.ita exceſſus.f.ſupra.c.eſt maior exceſſu.c.ſup.b.Lum g̊ maior ſit ꝓpor^o.b.ad.a.ꝙ̄.c.ad.b.ſeq̄r ꝙ exceſſus.c.ſup.b.ſe hȝ in maiori ꝓportiōe ad.g.exceſſuȝ ꝙ̄ exceſſus.f.ſupra.c.ſe hȝ ad.g.exceſſuȝ:⁊ ſi ſic per plus excedit.c.b.ꝙ̄.f.c.ꝯn̄a ſatis pȝ:q2 oē qd ſe hȝ ad aliq̄d in maiori ꝓpor^{ne} adeȝ eſt maius illo qd ſe hȝ ad idē in minori ꝓportiōe.Luȝ g̊ iter.c.b.ſit.g.exceſſus:⁊ inter.c.d.ſil^r ſeq̄r ꝙ.e.plus excedit.c.ꝙ̄.f.excedat.d.⁊.c.eſt min^9.d.ergo ꝓpor^o.e.ad.c.eſt maior ꝓpor^{ne}.f.ad.d.ꝯn̄a tȝ:q2 ſi eſſet eq̄lis exceſſus ꝑciſe.e.ſup.c.⁊.f.ſupra.d.ꝓpor^o.e.ad.c.eēt maior ꝓpor^{ne}.f.ad.d.per h̄ ꝙ ex eq̄li exceſſu iter minora reſultat ꝓpor^o maior ꝙ̄ inter maiora:g̊ a fortiori q̄ñ maior eſt exceſſus.e.ſup.c.ꝙ̄.f.ſup.d.erit iter.e.c.maior ꝓpor^o ꝙ̄ inter.f.d.Luȝ g̊ ꝓpor^o.e.ad.b.excedat ꝓpor^{neȝ}.c.ad.b.per ꝓpor^{neȝ}.e.ad.c.q2 tota ꝓpor^o.e.ad.b.cōponit ex ꝓpor^{ne}.e.ad.c.⁊ ex ꝓpor^{ne}.c.ad.b.Et ſil^r ꝓpor^o.f.ad.c.excedit ꝓportionē.d.ad.c.per ꝓpor^{neȝ}.f.ad.d.g̊ ꝓpor^o.e.ad.b.ꝑ maiorē ꝓportionē exce^t ꝓpor^{nem}.c.ad.b.ꝙ̄ ꝓpor^o.f.ad.c.excedat ꝓpor^{nem}.d.ad.c.⁊ eq̄lis eſt ꝓpor^o.b.ad.a.ſicut.e.ad.b.per poſitum:⁊ equalis ēt eſt proportio.c.ad.b.ſicut.f.ad.c.per poſitū.Seq̄r g̊ ꝙ ꝓpor^o.b.ad.a.exce^t ꝓportioneȝ.c.ad.b.ꝓpor^{nem} per maiorē ꝓportionē ꝙ̄ ꝓpor^o.c.ad.b.excedat d.ad.c.ꝯn̄a tȝ ꝑ h̄:ſi ſint duo eq̄lia q̄cūqȝ 3^m ab illis duobus eq̄l^r excedet.Et ſic ar^r de iſtis q̄tuor termis.a.b.c.d.ita de oīb^9 alijs eſt arguēduȝ.g̊ ſeq̄r ꝯ. ❡ Scdm ſuppōnēduȝ eſt h̄.Si ſint.iiij.ꝯtinue ꝓpor^{les} ꝓpor^{ne} arithmetica cōtinue:p̄^m ⁊ vlt^m alijs duob^9 intermedijs eſt eq̄le q̄tis hoc dicat a Boetio in arithme^{ca} ſua.hic tñ idē demōſtrat.Exq̄ ꝯia.n.illa.iiij.ſunt ꝯtinue ꝓpor^{lia} arithme^{ce}:idem erit eq̄l^r me^m inter p̄^m ⁊ vlt^m ad me^m inter 2^m ⁊ 3^m,vocādo maximū illoꝝ p̄^m iſtoꝝ:q2 p̄^m illoꝝ eq̄l^r excedit 2^m.ſicut 3^m quartū iſtoꝝ.ſit g̊.d.me^m inter p̄^m ⁊ vlt^m ⁊ ēt inter 2^m ⁊ 3^m:⁊ tūc ſic arguit.d.eſt me^m inter p̄^m ⁊ 4^m:⁊ oē cōpoſitū ex duab^9 inequalib^9 eſt ꝑciſe du^m ad me^m inter illa:vt ꝓbat in 2° ſuppoſitiōe ꝯnis.xxxvi.de motu locali:ergo p̄^m ⁊ 4^m ꝯſtituūt du^m ad.d.⁊ ſil^r 2^m ⁊ 3^m ꝯſtituūt du^m ad.d.q2.d.eſt mediuȝ inter iſta:g̊ p̄^m ⁊ 4^m ſunt eq̄lia 2° ⁊ 3°:quia aggregatum ex vtriſqȝ du^m ad.d.ꝯſtituūt.pȝ g̊ regula. ❡ Ex h̄ deducit 3^m ꝓbāduȝ ad ꝓbationē p̄mi notabilis vȝ.Si ſint.iiij.quoꝝ p̄^m per plus exce^t 2^m ꝙ̄ 2^m 3^m:⁊ 2^m per plus excedit 3^m ꝙ̄ 3^m 4^m:p̄^m ⁊ 4^m ꝯſtituūt plus ꝙ̄ 2^m ⁊ 3^m:q2 inter illos terminos ſunt tres exceſſus.ſ.vn^9 inter p̄^m ⁊ 2^m:⁊ alius inter 2^m ⁊ 3^m:⁊ alius iter 3^m ⁊ 4^m:quoꝝ p̄m^9 eſt maxim^9.ſ.inter p̄^m ⁊ 2^m:⁊ 3^m eſt minim^9.ſ.inter 3^m ⁊ 4^m:g̊ exceſſus iter p̄^m ⁊ 2^m eſt plus ꝙ̄ 3^a ps toti^9 exceſſus:⁊ exceſſus iter 3^m ⁊ 4^m eſt minor ꝙ̄ 3^a ps toti^9 exceſſus:qui eſt iter p̄^m ⁊ 4^m.Pōat ergo ꝙ ſtātib^9 p̄mo ⁊ 4° fiat variatio ſcdi ⁊ tertij:ita ꝙ illi quatuor termini fiant cōtinue ꝓportionales arithmetice:⁊ ſequit ꝙ in fine exceſſus inter p̄^m ⁊ 2^m erit 3^a pars totius equal^r exceſſus:⁊ ita erit de exceſſu inter 2^m ⁊ 3^m:⁊ inter 3^m ⁊ 4^m.Luȝ g̊ inter p̄^m ⁊ 2^m ſit in p̄ncipio plus ꝙ̄ tertia pars toti^9 exceſſus ſtante p̄mo:⁊ etiā toto exceſſu eq̄li:ergo 2^m debet maiorari.Et ſimil^r arguit ꝙ 3^m debet maiorari:q2 inter 3^m ⁊ 4^m nūc nō eſt tertia pars totius exceſſus:⁊ tunc in fine erit inter illa.ſ.p̄mū ⁊ 2^m:erit tertia ps totius exceſſus ſtantib^9 p̄mo ⁊ quarto.Seq̄t g̊ ꝙ 2^m ⁊ 3^m maiorabūtur:⁊ in fine erunt illa duo eq̄lia p̄mo ⁊ quarto per regulā primā:ergo nūc conſtituūt min^9 ꝙ̄ p̄mū ⁊ quartū qd fuit ꝓbanduȝ. ❡ Ex his p̄mū notabile cōcludit. Signent.n.duo inter que ſit ꝓportio maioris ineq̄litatis:quoꝝ.a.ſit maius ⁊.b.minus:⁊ diuidat totus exceſſus inter.a.⁊.b.in quartas:⁊ ſeq̄r ꝙ erūt termini q̄nqȝ ꝓportiōalis arithmetice.ſ.gradus icipiēs p̄mā quartā ⁊ gradus terminās eādem:⁊ incipiēs ſcdaȝ quartā ⁊ terminās eandeȝ ⁊ incipiēs tertiā ⁊ gradus terminās tertiā ⁊ icipiēs vltimā ⁊ gradus terminās vltimā:oēs iſtos terminos accipiēdos his exceptis terminis extremalib^9 toti^9 latitudinis ſicut diuiſa latitudine inter.viij.⁊.iiij.in quartas habebunt q̄nqȝ termini cōtinue ꝓportionales.ſ.viij.vij.vi.v.iiij.inter quos ſunt quatuor exceſſus equales. Et per ꝯn̄s ꝓportio inter duo minora illoꝝ quinqȝ terminoꝝ excedit ꝓportioneȝ inter 3^m ⁊ 2^m,vocādo p̄mū minimū illoꝝ per maiorē ꝓportionem ꝙ̄ ꝓportio inter 3^m ⁊ 2^m excedat ꝓportionem quarti ad tertiū vt vult p̄ma illaꝝ trium regulaꝝ.Et ſic per eandem regulaȝ ꝓportio tertij ad ſcdm excedit ꝓportionem quarti ad tertiū per maiorē ꝓportionē ꝙ̄ ꝓportio quarti ad tertiū excedat ꝓportionē quinti ad quartū. Ergo inter iſtos q̄nqȝ terminos ſunt q̄tuor ꝓportiōes.ſ.vna inter 2^m ⁊ p̄mū:⁊ alia inter 3^m ⁊ 2^m:⁊ tertia inter 4^m ⁊ 3^m:⁊ quarta inter 5^m ⁊ 4^m.Quaꝝ ꝓportio maxima que vocat p̄ma.ſ.iter ſcdm ⁊ p̄mū per plus excedit ſcdaȝ ꝓportionē:que eſt inter 3^m ⁊ 2^m ꝙ̄ iſta ſcda ꝓportio excedat tertiā ꝓportionem que eſt inter 4^m ⁊ 3^m.Simil^r illa ſcda proportio per plus excedit tertiā ꝙ̄ tertia quartā:que.ſ.eſt inter 5^m ⁊ 4^m. Ergo per tertiā illaꝝ regulaꝝ p̄ma iſtaꝝ quartaꝝ ꝓportionū que eſt maxīa ⁊ vltima ꝓportio iſtaꝝ que eſt minīa ꝯſtituūt maiorē ꝓportionē ꝙ̄ ſcda ꝓportio ⁊ tertia:⁊ tota ꝓportio inter.a.b.ꝯtinet ꝑciſe iſtas quatuor ꝓportiones:⁊ ex his cōponit.g̊ p̄ma illaꝝ ꝓportionū que.ſ.eſt inter terminos quarte remiſiſſime latitudis inter.a.⁊.b.⁊ minima ꝓportio iſtaꝝ q̄tuor que eſt inter terminos quarte iſti^9 latitudinis intenſiſſime conſtituūt plus ꝙ̄ medietatē totius ꝓportionis inter.a.⁊.b.⁊ iſte due ꝓportiones inter.a.⁊.b.deperdent:g̊ in fine nō remanebit medietas toti^9 ꝓportionis prehabite.ꝯn̄a ſatis pȝ:⁊ minor arguit.ſ.ꝙ iſte due proportiones.ſ.maxima ⁊ minima illarum quatuor pro-

Regula ꝓportionū.

Probat regula vlr.

Scdȝ ſuppoſitū ⁊ ē regula hōa in mā proportionū.

[illegible] ſuppoſitum.

Deductio primi notabilis.

poꝛtionum deperdent inter.a.ꝛ.b.q̄a.b. creſcit per vnam quartã toti⁹ exceſſus per añs iſtius notabilis: ergo per crementũ.b.lz.a.ſtaret deꝑderet iſta ꝓpoꝛtio maxima iſtaꝝ quatuoꝛ: q2 illa eſt inter terminos iſtius quarte per quã.b. creſcet: ꝛ.a.decreſcet per q̄rtã maximã illi⁹ exceſſus inter cui⁹ extrema eſt illa minia ꝓpoꝛ° illaꝝ q̄tuoꝛ ꝓpoꝛtionũ. ergo rõne decremẽti.a. deperdet minima illaꝝ q̄tuoꝛ ꝓpoꝛtionũ: ꝛ ſic rõne cremẽti.b. ꝛ decremẽti.a. deꝑdent iſte due ꝓpoꝛnes. Uel breui⁹.a. decreſcit per vnã quartã iſtius exceſſus: ꝛ.b. creſcet per vnã quartã: ḡ inter.a.b. tũc ſolum remanebũt iſte due ꝓpoꝛtiões intermedie: que illas duas q̄rtas intermedias exceſſus ſequūt. Et ſi ſic iſte due ꝓpoꝛtiones maxia ꝛ minia deꝑdent inter.a. ꝛ.b. que alijs duabus intermedijs ſunt maioꝛes vt argutũ eſt: ḡ tota ꝓpoꝛ° inter.a.b. eſt plus q̄ dupla ad ꝓpoꝛnem que in fine remanebit inter illa que fuit ꝑma notabilitas ꝛ ſuppoſitio intẽta: vz ſi iter aliqua duo ſit ꝓpoꝛtio maioꝛis ineq̄litatis: quoꝝ maius decreſcet per quartã toti⁹ exceſſus ꝛ min⁹ creſcet ꝑ talem quartã: tota pꝛopoꝛtio reſultãs fiet in fine minoꝛ q̄ ſubdupla ad ꝓpoꝛtionẽ pꝛehabitã. ¶ Per eundẽ modũ põt argui ꝙ ſi exceſſus iter termios aliquos minoꝛet̄ per quartã toti⁹ per eq̄le crementũ minoꝛis ꝛ decremẽtũ maioꝛis plus q̄ q̄rta pars toti⁹ ꝓpoꝛtionis inter illa deꝑdet̄ ꝛ vl'iter minoꝛato exceſſu inter ineq̄lia per eq̄le cremẽtuz vnius ꝛ decrementũ alterius.ſ.maioꝛis: maioꝛ ꝑs aliquota totius ꝓpoꝛnis deperdet̄ q̄ eſt ꝑs iſta aliquota toti⁹ exceſſus que deꝑdet̄. Quia ſicut ꝓbatum eſt qñ ſunt q̄tuoꝛ termini cõtinue ꝓpoꝛles arithmetice: pꝛim⁹ ꝛ vltim⁹ ꝯſtituũt medietatẽ toti⁹ aggregati ex illis q̄tuoꝛ: ita ſi eſſet octo cõtinue ꝓpoꝛles arithmetice pꝛius ꝛ vltim⁹ ꝯſtituerẽt q̄rtam totius: ꝛ ſi eſſent.xvi. ſic ꝯtinue ꝓpoꝛtiõabilia arithmetice ꝑmus ꝛ vltim⁹ ꝯſtituerẽt octauã ꝑtẽ toti⁹: ꝛ ſic in infinitũ.

Regla ꝓpoꝛtionũ.

¶ Itẽ quotcũqz termini ꝓpoꝛtionãtur pares vl' ipares h̄ modo vz ſi eq̄lis ſit exceſſus inter coꝛiita tñ ꝙ numer⁹ notus de figuris.ſ. quot ſunt termini ꝓpoꝛtionati ſit par: ꝑm ꝛ vltimũ cõſtituũt ꝑtez toti⁹ aliquotã denoiatã nuõ ſubduplo ad numerũ oĩuz adinuicẽ ſm illaꝝ ꝓpoꝛnem arithmeticam ꝓpoꝛtionatoꝝ. Sicut in exẽplo ſunt iſti octo termini ꝓpoꝛles arithmetice.viij.vij.vi.v.iiij.iij.ij.i. ꝛ ꝓbat̄ ꝙ totũ cõtinet.xxxvi.ſ. aggregatũ ex oib⁹ ꝛ ꝑmũ ꝛ vltimũ: intelligẽdo per ꝑm maximũ ꝛ vltimũ minimũ cõſtituũt adequate nouẽ que ſunt q̄rta ꝑs toti⁹ numeri vz.xxxvi. Iſtud ꝑz per additionẽ iſtoꝝ numeroꝝ adinuicẽ. ¶ Itẽ ponat̄ exẽplũ vbi ſunt.vi. termini ſic ꝓpoꝛtionati: ꝛ ſeq̄t ꝙ ꝑm ꝛ vltimũ cõſtituũt tertiã ꝑtez totius ſicut ſunt iſti termini.vi.v.iiij.iij.ij.i. Oẽs eniz iſti termini ſimul additi cõſtituent.xxi. vt ꝑz per additionẽ illoꝝ adinuicẽ. Et ꝑm⁹ termin⁹ ꝛ vltim⁹ cõſtituent.vij. que ſunt tertia pars iſtius numeri.xxi. Et ſic vbi ſunt octo termini: ꝛ ſic in infinitũ inuenies. ¶ Hoc ſic demõſtrat̄. Sint octo termini adinuicẽ ꝓpoꝛtionati cõtinue ꝓpoꝛtione arithmetica: ꝛ ſeq̄t ꝙ cõpoſitũ ex pꝛimo ꝛ vltimo erit eq̄le cõpoſitũ ex ſcdo ꝛ penultimo ꝛ etiã eq̄le cõpoſito ex tertio ꝛ antepenultimo etiaz eq̄le cõpoſito ex quarto ꝛ q̄nto. Mediuz.n. inter 4m 5m eſt mediuz iter oẽs alios terminos ſic adinuicez cõpoſitos: q2 q̄ntũ eq̄l'r excedit vltimũ: ſicut ꝑmũ excedit 4m. Pꝛimũ.n. excedit q̄rtuz per tria illoꝝ exceſſuũ: q2 vnus exceſſus eſt inter ꝑm ꝛ 2m: ꝛ alius inter 2m ꝛ 3m: ꝛ tertius inter 3m ꝛ 4m: ꝛ tot exceſſus erũt inter q̄ntũ ꝛ vltimũ: q2 vnus inter 5m ꝛ 6m: ꝛ alius iter 6m ꝛ 7m: ꝛ tertius inter 7m ꝛ 8m: ꝛ oẽs iſti exceſſus ſũt eq̄les ꝑmo: ergo ꝑmũ excedit mediũ inter 4m ꝛ 5m per tres illoꝝ exceſſuũ ꝛ medietatis vni⁹: ꝛ ita idez mediũ excedit vltim per ꝑargũta: ergo mediũ inter ꝑm ꝛ vltm eſt idez medio inter 4m ꝛ 5m. Conſil'r arguit̄ ꝙ 2m excedit idez mediũ inter 4m ꝛ 5m per duos illoꝝ exceſſuũ ꝛ per medietatẽ vnius: ꝛ ita idẽ mediũ excedit terminũ penultimũ vt cõſtat. Sil'r tertius termin⁹ excedit idez mediũ inter 5m ꝛ 4m per vnũ illoꝝ exceſſuũ: ꝛ per medietatẽ vnius illoꝝ exceſſuũ: ꝛ ita idez mediũ excedit antepenultimũ. Pz ḡ ꝙ inter oẽs illos terminos limitatos idez eſt mediuz: ꝛ oẽ cõpoſitũ ex duobus: ſiue equalib⁹: ſiue ineq̄lib⁹ eſt duplũ ad mediũ inter illa: ḡ oĩa illa cõpoſita diuiſiue accipiẽdo ly oĩa, conſtituũt duplũ ad idem mediũ. Qõlz ergo illoꝝ cõpoſitoꝝ alteri eſt eq̄le: ꝛ ſunt q̄tuoꝛ talia compoſita: q2 octo ſunt termini: quoꝝ duo ſemꝑ adinuicẽ cõponunt̄: ḡ qõlz illoꝝ cõpoſitoꝝ eſt 4a toti⁹ aggregati ex oib⁹: ꝛ ſic ꝑm ꝛ vltm cõſtituũt quartã toti⁹: ꝛ ſic quotcũqz eſſent h⁹ termini adinuicẽ ꝓpoꝛtionati ꝯtinue ꝓpoꝛtiõe arithmetica: ꝑm ꝛ vltimũ cõſtituent ꝑtez toti⁹ aggregati ex oĩbus iſtis terminis denoiatã numero ſubduplo ad numerũ oĩuz illoꝝ termioꝝ. ¶ Ex hoc deducit̄ ꝙ quotcũqz fuerint termini ꝓpoꝛles arithmetice ꝑtes: quoꝝ exceſſus ꝑm⁹.ſ. inter maxios terminos ſit maxim⁹: ꝛ tunc ſit ſic ꝙ ſemꝑ inter terminos minoꝛes ſint exceſſus minoꝛes q̄ inter terminos maioꝛes: pꝛim⁹ terminus ꝛ vltim⁹ cõſtituũt ꝑtez toti⁹ aggregati ex oib⁹ denoiatam numero maioꝛi q̄ eſt numer⁹ ſubduplus ad numerũ oĩuz illoꝝ terminoꝝ: ſicut põt ꝓbari per mediũ quo ꝓbabat de illis quatuoꝛ termis in ꝑ notabili dicto. vbi gr̄a. ſi eſſent octo termini adinuicez ꝓpoꝛtionati mõ dicto: ita ꝙ maioꝛ eſſet exceſſus ꝑmi ſupꝛa 2m q̄ ſcdi ſupꝛa 3m: ꝛ ita deincepꝭ: ꝑmũ ꝛ vltimũ cõſtituẽt plus q̄ quartã toti⁹ cõpoſiti ex oib⁹ illis terminis. ¶ Ex his deducit̄ ꝙ qñcũqz per

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cremẽtũ minoꝛis ꝛ decremẽtũ maioꝛis eq̄ue'r iter illa aliq̄ minoꝛat̄ exceſſus veloci⁹ ꝓpoꝛtiõabil'r minoꝛat̄ ꝓpoꝛtio q̄ exceſſus: vt ſi 4a ꝑs exceſſus deꝑderet̄ plus q̄ 4a ꝑs toti⁹ ꝓpoꝛnis deꝑdet̄: ꝛ ſic in infim. Si.n. 4a ꝑs exceſſus d̄ꝑderet̄ ꝑ minoꝛationẽ eq̄uelocẽ maioꝛis: ꝛ minoꝛis maioꝛationẽz h̄ mõ.ſ. vt per minoꝛationẽ maioꝛis deꝑdat̄ octaua pars exceſſus: ꝛ minoꝛis maioꝛationẽ alia octaua: tunc diuidatur tot⁹ exceſſus in octauas: ꝛ ſeq̄t ꝙ termini erũt nouẽ inter quos erũt illi octo exceſſus eq̄les: ꝛ per ꝯñs inter illos terminos erũt octo ꝓpoꝛtiones: quaꝝ illa que eſt inter terminos minimos illoꝝ nouẽ erit maxia ꝓpoꝛtio per maioꝛez ꝓpoꝛtionẽ excedens ꝓpoꝛtionẽ ſcdaꝝ: que.ſ. eſt iter tertiũ ꝛ ſcdm vocãdo ꝑm terminuz minimũ q̄ iſta ſcda excedat ꝓpoꝛtionẽ tertiã: que.ſ. eſt quarti ad 3m per regulaz ꝑmã: ꝛ ita eſt de alijs: ḡ inter illos nouẽ terminos erunt octo ꝓpoꝛtiões: quaꝝ ꝑma ꝛ vltima.i. maxia ꝛ minima ꝯſtituent plus q̄ quartã toti⁹ ꝓpoꝛnis ex oib⁹ illis octo ꝓpoꝛtionib⁹ cõpoſite: ꝛ iſta eſt ꝓpoꝛtio tota inter illa duo adinuicẽ ꝓpoꝛtionata: ꝛ ꝓpoꝛtio aggregata ex minima ꝓpoꝛtione ꝛ maxia illaꝝ octo deꝑdet̄: q2 minus illoꝝ duoꝝ terminoꝝ creſcet per maximã illaꝝ ꝓpoꝛtionũ: ꝛ maioꝛ illoꝝ decreſcet per minimã illaꝝ octo ꝓpoꝛtionũ: ḡ ſequit̄ ꝙ plus q̄ q̄rta pars toti⁹ ꝓpoꝛnis deꝑdet̄: ꝛ ſoluz 4a pars totius exceſſus deꝑdet̄: ergo veloci⁹ ꝓpoꝛtionabil'r minoꝛabit̄ ꝓpoꝛtio q̄ exceſſus. Conſil'r arguẽduz eſt: q̄ntacũqz fuerit pars exceſſus deꝑdita, ſemꝑ diuidendo totuz exceſſum in tot ꝑtes quotiẽs medietas exceſſus deꝑdita inuenit̄ in toto exceſſu: vt ſi octaua ꝑs exceſſus deꝑdat̄ medietas iſti⁹ deꝑditi ꝛc. erit ꝑs 16a totius. Et ideo diuidat̄ tot⁹ exceſſus in.xv. ꝑtes eq̄les ꝛ inuenient̄.xvi. ꝓpoꝛtiões coꝛriſdẽtes illis exceſſib⁹: ita ꝙ ſemꝑ inter iſtos termios maioꝛes erit ꝓpoꝛtio minoꝛ: ꝛ oĩs illaꝝ ꝓpoꝛtionũ mediaꝝ erit minus excedens ꝓpoꝛnem ſibi imediatã inter terminos maioꝛes imediatos: ꝛ cõtra illa ꝓpoꝛtio excedet̄ a ꝓpoꝛtiõe iter terminos imediatos minoꝛes per regulas: ꝛ ſic maxia ꝓpoꝛ° illaꝝ.xvi. ꝛ minima ꝯſtituent plus q̄ octauã toti⁹ ꝓpoꝛnis: ꝛ ideo plus q̄ octaua toti⁹ ꝓpoꝛnis deꝑdet̄: ꝛ ſic ſi deꝑderetur 16a pars totius exceſſus: diuidatur totus exceſſus in

partes

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ptē:quarū quelibet ſit.32.pars toti⁹ exceſſus:⁊ ſequit̄ ꝙ plus ꝙ̄ 16ᵃ pars toti⁹ ꝓportionis deꝑdet̄. ¶ Per hās maniſeſte ↄcludit̄ ꝙ ſimplex hñs vnā ptē vltra cētrū:⁊ aliā citra cētrū ipſm ad centrū nō poterit deuenire:ita ꝙ me^m eius fiat mediū mūdi ſicut eſt ſimplex colūnare:ꝗa ſi ſic ſit.a.iſta terra cui⁹ mediū ſit.c.⁊ ſit.d.me^m mūdi:⁊ ſit aliq̄ pars vltra centrū:⁊ vocet̄ ↄtinue tota pars que erit vltra cētrū.b.tunc.c.diſtat a.d.ꝑ certā diſtātiā:que.ſ.eſt medietas toti⁹ exceſſus ptis citra cētrū mūdi qḋ eſt.d.ad partē vltra.d.ꝗa capiat̄ iſta pars que eſt citra.ſ.inter.c.d.tūc iſta pars eſt pars medie^tis iferioris.a.que diſtātia ſit.e.ſeq̄t̄ ḡ ꝙ tota medietas.a.excedet.b.ptē:que eſt vltra cētrū.d.ꝑ tantū quātū eſt.e.⁊ medietas vna.a.eſt alteri eq̄lis:ḡ medietas ſupior.a.excedit.b.ptē ꝑ tātū quātū eſt.e.⁊ ſic ſeq̄t̄ ꝙ medietas.a.⁊ ↄtinēs tātū quātū.e.eſt excedūt.b.ptē ꝑ tātū quātū ↄtinet duo.e.Sȝ pars.a.citra cētrū.d.eſt medietas ipſius.a.⁊ pars equalis.e.diſtantie que eſt diſtātia inter.c.d.ergo ſequit̄ ꝙ tota pars.a.citra.d.excedit totam partē vltra.d.per tantū quātū ↄtinēt duo.e.⁊ ſi ſic:ſequit̄ ꝙ diſtātia iter.c.d.eſt eq̄lis medie^tati exceſſus ptis citra.d. ad ptē vltra.d.vbi.ḡ.ſi totū eēt q̄ntitatis q̄drupedalis:cui⁹ vna pedalis eēt vltra.d.⁊ tripedale eēt citra.ſeq̄t̄ ḡ ꝙ exceſſus ptis citra.d.ad ptē vltra eēt bipedale:qḋ eſt duplū ad diſtātiā iter.c.⁊.d.que eſt ſolū pedalis.Silr̄ ſi pedale ⁊ ſemipedale ipius eēnt vltra cētrū.d.bipedale ⁊ ſemipedale eēnt citra.ḡ exceſſus eēt pedalis:⁊ diſtātia iter.c.d.ſolū eēt ſemipedalis:vt ↄſtat.Pȝ ḡ gñalr̄ ꝙ ſi alicui⁹ ſimplicis vniformis compōnis ſit vna pars minor ꝙ̄ medietas vltra cētrū mūdi exceſſus ptis citra cētrū ſupra ptē vltra cētrū erit du⁹ ad diſtan^tiā iter cētrū iſti⁹ terre ⁊ cētrū mūdi.



Diuidat̄ ḡ diſtātia iter.c.cētrū ipi⁹ terre:⁊.d.cētrū mūdi in ptes ꝓpor^les:⁊ ſint minores ptes v̄ſus.d.⁊ ar⁹ ſic per trāſita ꝓ^a pte ꝓpor^li iſtius diſtātie a.c.pūcto deꝑdet̄ medietas diſtātie inter.c.d.pūcta:⁊ diſtātia inter.c.d.ↄtinue erit eq̄lis medietati exceſſus ptis citra cētrū ad ptē vltra deꝑditā:⁊ que auferet̄ a pte citra.d.centri addet̄ pti reſidue ꝓciſe:vt notū eſt.ḡ per ꝓ^am regulā ꝓportio ptis citra.d.cētrū ad ptē vltra minorabit̄ vltra ſubdup^m.Et ꝑ ↄñs mot⁹ ei⁹ erit tūc remiſſior ꝙ̄ ſubduplus ad ꝓpor^em ꝓbabitā ſeu motū ꝓbabitū:⁊ ſic etiā ptrāſita 2ᵃ pte ꝓportionali illius diuiſionis minorabit̄ exceſſus ad ſubduplum:ꝗa in omni parte ꝓportionali iſtius diſtātie minorabit̄ diſtātia inter c.d.pūcta ad ſubduplū:que diſtātia ↄtinue erit ſubdupla ad exceſſum ptis citra.d.ad partē vltra:⁊ ſic in ꝓ^o cuiuſ

libet ptis ꝓportionalis poſterioris erit mot⁹ remiſſior ꝙ̄ ſubduplus ad motū habitū ad ꝓn^m partis ꝓportionalis iſtius diſtātie imediate ꝓcedētis.ergo ſi ſup quācūq; ptē ꝓportionalē mouerēt̄ gradu ſubduplo ad gradū quo ad ꝓn^m iſtius mouebat̄ in nullo tpe finito deueniret.c.pūct⁹ ad.d.punctū:ſed nūc ſup oēm partē ꝓportionalē erit motus tardior ꝙ̄ eſſet tūc:ꝗa ſup oēm partē ꝓportionalē remitteret̄ mot⁹ plus ꝙ̄ ad ſubduplū:ḡ nūc in nullo tpe finito deueniet.c.pūctus ad.d.punctū.ↄñtia iſta nota eſt:et ↄñtia ꝓxima etiā pȝ:ꝗa ſi ſup oēȝ partē iſtius diſtātie moueret̄.c.pūct⁹ equalr̄ ſicut mouebit̄ ad ꝓn^m iſtius ptis:ex quo 2ᵃ pars ꝓportionalis eſt in duplo minor ꝓ^a:⁊ motus in 2ᵃ eēt minor ꝙ̄ ſubduplus ad motū in ꝓ^a:maius tēpus regreret̄ ad ptrāſitionē ſcḋe ptis ꝓportionalis ꝙ̄ ad pertrāſitionē ꝓme.Et per idē arg^m maius tēpus regreret̄ ad pertrāſitionē 3ᵉ ptis ꝓportionalis ꝙ̄ ſcḋe:⁊ ſic in ifinitū:ḡ tūc in nullo tpe finito trāſiret.c.totā illā diſtātiā.ḡ vt ꝓus a multo fortiori nūc nō ſufficit totū ptrāſire:qḋ fuit ꝓbādū. ¶ Uel ſic arguit̄ breuius.Jlle exceſſus iſtius ptis citra.d.ad ptē vltra.d.tardius ⁊ tardius ꝓportionabilr̄ cōtinue diminuet̄:ḡ in nullo tpe finito deperdet̄ iſte exceſſus ad nō gradū.ↄñtia tenet:ꝗa ſi ad nō gradū deꝑderet̄ aliqñ eſſet aliquātus:⁊ aliqñ ſubduplus:⁊ aliqñ ſubq̄druplus:⁊ ſic in ifinitū:qḋ nō eēt niſi ifinite ꝓportionabilr̄ diminueret̄:vt cōſtat.Patet ḡ ↄñtia:⁊ añs arguit̄ ſic ꝓportionabilr̄ ſicut mot⁹ erit tardior:ita tardius deꝑdet̄ exceſſus:ſȝ mot⁹ velocius ꝓportionabilr̄ remittet̄ ꝙ̄ exceſſus:ḡ exceſſus tardi⁹ ⁊ tardius ꝓportionabilr̄ remittet̄.ↄñtia ꝓbat̄:ꝗa ſi in ea ꝓportione ꝓceſſe in qua exceſſus erit minor eēt ſua deꝑditio minor:tūc vniformiter ꝓportionabiliter diminuet̄ exceſſus:vt pȝ.ſȝ ↄtinue ſua deꝑditio ⁊ motus erit in maiori ꝓportione minor ꝙ̄ eſt in ꝓn^o ꝙ̄ ille exceſſus vt pȝ.ḡ exceſſus iſte tardi⁹ ⁊ tardius ꝓportionabilr̄ diminuet̄.Añs pȝ:ꝗa per vltimā regulā veloci⁹ ꝓportionabiliter minorabit̄ ꝓportio illarū partiū:quarū.ſ.vna eſt citra.d.cētrū ⁊ alia vltra ꝙ̄ iſte exceſſus:⁊ eque ꝓpor^r minorabit̄ mot⁹ cū iſta ꝓportione:ꝗa mot⁹ iſte correſpōdet illi ꝓpor^ni ⁊ ↄtinue correſpōdebit.ḡ velocius ꝓpor^r ↄtinue minorabit̄ mot⁹ ꝙ̄ exceſſus vnius ptis ſupra aliā. Patet ḡ minor ꝓ^e ↄñtie:⁊ maior ſic arguit̄ ꝓpor^r ſicut motus erit tardior:ita tardius minorabit̄ pars citra cētrū:ꝗa nō minorabit̄ niſi per motū eius:⁊ equeuelo^r etiā maiorabit̄ pars vltra.d.cētrū:⁊ tota deꝑditio exceſſus eſt ex maioratione vnius ptis:que.ſ.eſt vltra.d.⁊ ex minoratiōe ptis citra.d. ḡ eque ꝓpor^r minorabit̄ deꝑditio exceſſus ſicut mot⁹ localis illi⁹.c.pūcti:ſeq̄t̄ ḡ intētū ꝙ tardius ⁊ tardius ꝓpor^r minorabit̄ ille exceſſus:ꝗa ſi ſic nunꝙ̄ deueniet ad nō gradū.Sed ſi.c.pūct⁹ deueniet ad.d.exceſſus iſte ad nō gradum diminueret̄:ꝗa tūc pars citra cētrū parti vltra illud cētrū erit eq̄lis:ḡ nunꝙ̄ deueniret.c.ad.d.qḋ fuit ꝓncipaliter intētū. ¶ Quāuis iſte regule ꝓcedētes q̄dāmodo ad ꝓportionē huius cōcluſionis ſic ponantur:poſſunt tamen ad multa alia deſeruire.

Deductio 2ᵉ breuior

Si cōceditur ↄcluſio ꝓncipalis ad quā deducit̄: ſeq̄t̄ ꝙ alicuius corꝑis nālis eēt appetit⁹ maxime ſibi nālis oīno ocioſus:qḋ enī eſt in ſpecie terre nāliter appetit cētrū mūdi. Si ḡ ad idem nō poſſet deuenire vanus eēt eius appetit⁹.ↄñs falſum:ḡ ex quo ſequit̄. ¶ Jtē data ↄñe ſequit̄ ꝙ aliqḋ eſt graue:cui⁹ grauitas ſi maneret intēſo igne in ipſo totū intēderet motū eius deſcēſus rōne iten^ſe leuitatis.ↄñs ĩpoſſibile vt apparet:ꝗa ignis nāliter appetit v̄ſus ſurſum:non ḡ iuuabit graue ad deſcēſum.Et ꝙ ↄcluſio ſequat̄ arguit̄ ſic:detur mixtū cuius vna pars minor tñ ꝙ̄ medietas ſit vltra cētrū mūdi:in qua pte intēdat̄ ignis:tunc ille ignis appetit moueri

Contra concluſionem deductam.

v̓ſus ſurſum: ſed illo igne aſcendēte totū nec̄io deſcēdet. ǧ
ille ignis iuuabit ad deſcēſuꝫ illius mixti. Si ǧ ſtaret gra
uitas rōne mteſionis illi' ignis totū mixtū nec̄io deſcede
ret. ❡ Itē ſequit̄ ꝙ dato mixto vniformi in vacuo qd̄ eēt
graue illud ſi nature ꝓpe relinqueret̄ in eternū moueret̄:
cuius .ſ. vna pars minoꝛ ꝙ̄ medietas eēt vltra cētrū: quia
nunꝙ̄ deueniret ad centrū ⁊ ꝯtinue moueret̄ ꝙ̄diu diſta
ret a cētro: hoc ſic pꝫ grauitas citra cētrū cū leuitate vltra
ꝯtinue appetet ad totī' deſcēſum ⁊ ſolū grauitas vltra cē
trū cum leuitate citra appetet ne totū deſcēdat. Sed gra
uitas citra cētrū: ⁊ leuitas vltra ꝯtī' maioꝛis potētie erunt
ꝙ̄ grauitas vltra cētrū ⁊ leuitas citra: ǧ totū ꝯtinue deſcē
det. Maioꝛ ſic arguit̄: grauitas citra cētruꝫ ꝯtinue nititur
v̓ſus deoꝛſum: ⁊ leuitas vltra cētrū ꝯtinue nitet̄ v̓ſus ſur
ſum. Sed ſi pars citra cētrū moueret̄ v̓ſus deoꝛſum totū
deſcēderet: ⁊ etiā ſi pars vltra cētrū aſcēderet totū deſcē
deret: ǧ illa leuitas iuuabit ad deſcēſuꝫ cū grauitate citra.
Cōſilr̄ arguit̄ ꝙ grauitas vltra cētruꝫ reſiſtit ⁊ leuitas ci
tra cētruꝫ ſilr̄. pꝫ ǧ maioꝛ. Minoꝛ etiā arguit̄ ſic: ex quo totū
mixtū eſt vniforme tūc ꝯtī' erit ꝓpoꝛtio grauitatis citra
cētrū ad ſuā leuitatē ſicut grauitatis vltra cētrū ad graui
tatē ſecū extēſam: quaꝝ grauitatū ⁊ leuitatuꝫ grauitas ci
tra cētrū eſt maxima: ⁊ leuitas vltra cētrū minima: ǧ ꝯtī'
erit ꝓpoꝛtio maioꝛis inec̄litatis iter grauitatē citra cētrū
cuꝫ leuitate vltra ad grauitatē vltra cū leuitate citra. ꝯn̄s
Regula ꝓ poꝛtionē. tenet per h̄ ſi ſint 4^or termini ꝓpoꝛ^les eadē ꝓpoꝛ^ne geome
trica: quoꝝ p̄mus ſit maximus ⁊ vltimus minimus. p̄mus
⁊ vltimus ſimplr̄ aggregati plus aliꝭ duob^s ꝯſtimēt. Se
quit̄ ǧ ꝙ idē mixtū ꝯtinue deſcēdet ⁊ nunꝙ̄ deueniat ad
cētrū: q2 tūc aliqñ diminueret̄ exceſſus po^e motiue ſupra
po^tem reſiſtiuā ad nō gradū. Sed ꝯn̄s eſt falſum: q2 tar
dius ⁊ tardius ꝓpoꝛ^r ꝯtī' diminuet̄ exceſſus ille: q2 eq̄ue
lociter diminuet iſta po^a motiua ſicut alia po^a maioꝛabit̄
.ſ. reſi^a: q2 eq̄uelo^r diminuet̄ grauitas ex vna p̄te ſicut ex
alia maioꝛabit̄: ⁊ etiā eq̄uelo^r minoꝛabit̄ leuitas ex vna
p̄te ſicut ex alia maioꝛabit̄. ǧ per vltimā regulā velocius
ꝓpoꝛ^r minoꝛabit̄ mot' ꝙ̄ exceſſus: ⁊ finita erit ꝓpoꝛ^o mo
tus ad minoꝛatiōeꝫ exceſſus: ǧ nunꝙ̄ deueniet exceſſus il
le ad nō gradū. ꝯn̄ria pꝫ per ar^m p̄us factū. ❡ Itē ex pōne
4 ſeq̄t̄ ꝙ graue nāliter mouēs ad cētrū, ab eodē cētro nāli
ter recedet. Sit eiꝫ .a. graue: cui' vna pars ſit .d. ſ. tota vltra
cētrū que ſit ꝯtī' mixta ⁊ reſidua pars pura ⁊ ſit grauitas
vni' medie^tis eq̄lis grauitati alteri' medietatis: tūc h̄ mix
tuꝫ mouebit̄ ad cētruꝫ: q2 tota grauitas citra cētrū erit cō
tinue maioꝛ tota grauitate vltra: ⁊ p̄ter h̄ leuitas vltra cē
truꝫ ꝯtinue iuuabit ad ei' deſcēſum: ǧ iter totā po^tem motī
uā ⁊ po^tem reſiſtiuā erit ꝯtī' maioꝛ ꝓpoꝛtio ꝙ̄ ſit ꝓpoꝛtio
po^e aggregate ex me^te iſtius grauitatis ⁊ tota iſta leuitate:
⁊ per ꝯn̄s per motū ei' poterit in certo t̄p̄e deuenire ad cē
trum. Et ꝙ nāliter recedet ab illo cētro ꝓbat̄. ſit inſtās in
quo erit ad cētrū: tūc in illo iſtāti erit grauitas vnius me
dietatis eq̄lis grauitati alteri' medie^tis: ⁊ tota leuitas incli
nabit v̓ſus ſurſum: ǧ tot' nixus ad deſcēſum terre vltra cē
truꝫ erit maioꝛ ꝙ̄ reſi^a terre vltra cētrū. pars .n. citra cen
trū appetet deſcēdere: ex cui' deſcēſu ſe^r aſcēſus totī' ter
re: ⁊ per ꝯn̄s tūc totuꝫ incipiet moueri ⁊ recedē a cētro: ex
quo ſeq̄t̄ ꝙ graue nāliter aſcēdet ⁊ nāliter quieſcet extra
me^m mūdi: q2 ſignet̄ in caſu ꝓximo vna pars iſti' grauis
que ſi eēt vltra cētrū eēt tāte po^e ſicut eſt terra citra ad cen
trū cuꝫ leuitate vltra: ⁊ ſeq̄t̄ ꝙ tūc erit ꝓpoꝛ^o eq̄litatis iter
mouēs ⁊ motū: ⁊ per ꝯn̄s tūc nō erit mot' eius. Ex his ǧ ⁊
maxime ex ꝯne p̄^a deducit̄ illaꝫ pōnem foꝛe falſam.

Alia pō Ideo foꝛte ponit̄ alia poſitio. vꝫ. ꝙ pars ex vna
p̄te cētri nō appetit reſiſtere: nec reſi
ſtit p̄ti ex alia p̄te cētri neq3 totī ne ip̄m deſcēdat: ſꝫ q2 eſt
pars totī': ideo appetit vt me^m totī' ſit mediū mūdi. ❡ Cō 3 pōnem.
tra iſtā pōneꝫ ſic ar^r. Idē eſt locus nālis cuiuſlibet partis
elm̄ti ⁊ totī': quē locū oēs p̄tes appetūt: ſi eēnt ſep̄ate a to
to: nō .n. eſt maioꝛ ratio q̄re vna pars ſep̄ata appeteret il
lū locū nālē ꝙ̄ alia. Ex quo ſic ar^r. Iſta pars que ē ex alia
p̄te cētri ſi per ſe eēt nō ꝯiūcta p̄ti reſidue nāliter inclina
ret̄ ad cētrū: vꝫ. ſ. cētrū ei' eēt cētruꝫ mūdi. Sꝫ illud qd̄ eſt
alicui nāle nō auferet̄ ꝓꝑ ei' ꝯiūctionē cuꝫ alio eiuſdē ſp̄ei
cuꝫ illo: q2 ꝓꝑ h̄ in eius nā nulla ſit mutatio: ǧ adhuc illa
pars ꝯiūcta totī qñ eſt pars totī' nitit̄ mouere vt eius me^m
fiat mediū mundi. ⁊ ſi ſic ſi ab iſto appetitu fruſtret̄ ne fi
nē ſuū nāliter habeat ip̄m nāliter ſuo impediēti reſiſtet. ⁊
illud eſt pars citra cētrū: ǧ pars vltra cētrū, p̄ti citra reſi
ſtet. ❡ Itē ſi totū moueret̄ h̄n̄s p̄tē ex alia p̄te centri: que 2
pars recedit a cētro: vel illa pars nāliter recedit: vel violē
ter. ſi nāliter: tūc nāliter recederet a loco ad quem nāliter
tanꝙ̄ ad ſuū terminū vltiatū moueret̄. ꝯn̄s falſuꝫ: q2 mo
ueret̄ ad locū talē tanꝙ̄ ad finē ei'. ſ. vbi q̄etē ſuā habeat
nālē: ǧ nō recedet nāliter. Si ǧ violēter moueret̄: ⁊ omne
violētatū ſuo violētāti reſiſtit: ǧ illa pars reſiſtit p̄ti mouē
ti v̓ſus deoꝛſuꝫ. ǧ iſta poſitio falſa. ❡ Itē ſeq̄t̄ ꝙ eſt mix 3
tū graue cōpo^m ex graui ⁊ leui diſtans a loco ſuo nāli: ⁊ tñ
idē nō moueret̄ v̓ſus locū ſuū ſic dato mixto tali: cui' pars
vltra cētrū minoꝛ ꝙ̄ medietas ſit vltra cētrū: que ſit mix
ta: ⁊ ſit pars reſidua pura: tūc h̄ diſtat a cētro: q2 cētrū ei'
nō eſt cētrū mūdi: ⁊ tñ nō mouebit̄. Si vndiꝙ̄ circa cētrū
mūdi eēt vacuum, nullā .n. tūc h̄ret reſi^am: q2 elm̄tū leue in
iſto mixto appetit ꝯtī' recedere a cētro: ⁊ ſi recederet totū
deſcēderet: vt notū eſt. ǧ iuuat totū ad deſcēſuꝫ: ⁊ per ꝯn̄s
nō ſibi reſiſtit. ❡ Ex h̄ deducit̄ ꝙ graue p̄ iten^em leuitatis Cōſir^r
in eo ſi ſtaret grauitas motū ei' itēderet v̓ſus deoꝛſum: q2
caſu poſito: ſi totū poneret̄ in medio: ita ꝙ pars mixta eēt
ex alia p̄te cētri: ſi leuitas in iſta p̄te itēderet̄: ſtāte graui
tate totuꝫ velociꝰ moueret̄: q2 leuitas illa totū iuuaret ad
deſcēſuꝫ. ❡ Ideo lꝫ h̄ foꝛte ſit īpoſē ꝙ grauitas ſtaret itē
ſa leuitate: h̄ tñ dꝫ ſeq̄ ꝙ ꝓꝑ itēſionē leuitatis nō remitte
ret̄ mot' grauis v̓ſus deoꝛſuꝫ. iſta .n. leuitas ſemꝑ erit iuua
mētū in totī' deſcēſuꝫ: ideo iſta leuitas: lꝫ eq̄uelo^r intēdat̄
ſicut grauitas minoꝛat̄ totū nō remittet motū ſuū. ❡ Itē 4
ſeq̄t̄ ꝙ aliqd̄ eſt mixtū qd̄ ad cētrū moueret̄ ab iſto loco
in quo nūc ponit̄: cuius eſt certa pars leuitatis: que ſi eſſet
ablata nō moueret̄ totū v̓ſus deoꝛſuꝫ. Signet̄ .n. mixtū ꝑ
totū: cui' vna 4^a ſit vltra cētrū: ⁊ ſit graue. Sit etiā vacuū
vndiꝙ̄ circa cētrum: ⁊ ſequit̄ ꝙ ex quo grauitas ſupra le
uitatem dn̄atur ꝙ totuꝫ deſcēderet: ⁊ tamē ſi tota leuitas
citra cētrum eſſet ablata totum nō moueret̄. nullaꝫ enim
tūc haberet reſiſtētiam. ſequit̄ ergo ꝯcluſio.

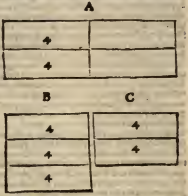
Pro iſto dici pōt ꝙ nulla pars reſiſtit alteri in de 3ª opinio
ſcēſu: ⁊ dꝫ ꝯce^di ꝙ idē eſt appetit' p̄tis cuꝫ
alteri p̄ti ꝯiūgit̄ ſicut ſi a toto ſeparet̄: diuerſimode tñ ſe hꝫ
in effectu: ⁊ ꝯcedit̄ ꝙ ꝑ eūdē appetitū moueret̄ ad cētruꝫ
ip̄a ſeparata a toto per quē qñ eſt pars totī' recedet a cen
tro: vt appet. Vñ hō coꝛpa nō h̄nt aliquē cōplexū appeti
tuꝫ: ideo dicet̄ ꝙ nō appetūt mouere nec appetūt quieſcē
nec appetūt eē in cētro: imo appetūt locū īfimū in cōpara
tione ad totū vniuerſuꝫ: qd̄ ip̄m maxime hꝫ qñ me^m ei' eſt
mediū mūdi: ſicut dicimus ꝙ aliqd̄ eſt ꝓpinquius alteri qñ
ſm ſe totū tāgit illud ꝙ̄ ſi ſolū ſm pūctū ip̄m tāgeret: ⁊ ēt
qñ tāgit cū pūcto medio dicimus idē eē ꝓpinquius ꝙ̄ qñ ſo
lū tāgit ſm extre^m: ideo mediū ei' eē mediū mūdi: ⁊ ip̄m
eſſe in loco ⁊ quieſcere in loco ⁊ moueri ad locū: ſunt talia
que effectiue ꝯſequunt̄ ei' appetitū in cōplexū qui eſt ad
cētrū. Vñ ſicut q̄libet pars p̄tis eſt pars totī': ita appetit'
cuiuſlibet p̄tis erit pars totī' appetit': ideo iuuat. ⁊ q2 eſt
pars totius appetit': ideo iuuat totū vt totū ſituet̄ in loco
ſuo nāli.

ſuo nāli: ꝛ nō ſibi reſiſtit. nulla. n. pars totiꝰ moueret̄: ꝛ cōtraꝫ eiꝰ ſit cētrū mūdi: q͂ʒ eſt pars appetitꝰ totiꝰ: ſʒ toto mouēte ad cētrū pars iſta que eſt vltra cētrū recedit a cētro: ideo vt eſt pars totiꝰ nāliter a cētro recedit. nō eſt. n. rōnabile ꝙ toti cōpetat vnus appetitus ꝑtes nō hñs: ꝛ ſi aliq̄s ꝑtes haberet: iſte erūt appetitꝰ ꝑtiū totiꝰ: ꝛ q͂a ſunt ꝑtes eiꝰ appetitꝰ totiꝰ nulla pars toti nitit̄ reſiſtē: nec vna pars alteri: nec ēt eſt rōnale ꝙ totū quieſcat nāliter: ꝛ q̄libet eiꝰ medietas violēter quieſcat: cū totū ex illis medietatibꝰ cōponat̄. Seq̄t̄ ḡ ꝙ ſicut in actione nāli inter elīta q̄libet pars iuuat aliā ad agēdū: ꝛ in id agit q̄libet pars in qd̄ totum agit: ita in motu terre ad cētrū q̄libet pars totā terrā iuuat ad deſcēſuꝫ: ꝛ nulla pars ipſi toti reſiſtit. Cuiꝰ ratio eſt: q͂a appetitꝰ cuiuſlibet ꝑtis eſt pars totiꝰ appetitꝰ: ꝛ vbi totū eſt homogeneū: vna pars toti nō opponit̄: adeo nulla pars toti reſiſtit in deſcēſu: ſʒ ipm iuuat. Si tñ iſta pars eēt ſeparata a toto: appetitꝰ illiꝰ partis fieret vnus integer appetitꝰ ꝛ nō pars alteriꝰ. Ideo ille effectꝰ qui eſt motꝰ illiꝰ ꝑtis v̄ſus cētrū: illū appetitū tūc ↄſeq̄ret̄: ſicut eſt in multis caſibꝰ. vʒ. in ḡnōne aliq̄: q̄n duo ꝑducūt aliqd̄: quoꝝ vtrūqꝫ iuuat reliquū ad agēdu: ꝛ tñ vnū per ſe illud idē nō ꝑduceret: ſed in caſu ↄ̃rio illiꝰ ſicut modicus ignis per ſe in ſubito aliq̄ ↄſeruaret ſanitatē: ꝛ tñ duplus ignis cuiꝰ ille ignis eſſet medietas: ꝑduceret in totū īfirmitatē. Aliud exm̄ pōt eē de ḡnatione coloꝝ: q͂z vna pars agēs: ſi per ſe eēt: aliquē colorē ꝑduceret: vbi tñ eſſet pars alteriꝰ ꝑduceret colorē oīno ↄ̃riū: ꝛ eūdē eſt appetitū p͂m ſꝑ dicetum ꝙ ↄclo nō eſt incōueniēs. ſ. ꝙ q̄n pars eſt ꝑ ſe hʒ appetitū nālē eūdē quē hʒ q̄n alteri ↄiūgit: ꝛ eiꝰ appetitꝰ eſt pars alteriꝰ appetitꝰ q̄n ↄiūgit̄: ita ꝙ ille appetitꝰ ꝑtis eſt diuerſus in effectu q̄n eſt ꝑs
Ad arm alteriꝰ: ꝛ q̄n eſt per ſe. ¶ Per h̄ pōt r̄ſideri ad argm̄ ↄtra pōnē q̄n arg ſic: idē eſt locus totiꝰ ꝛ ꝑtis: ꝛ eūdē locū appetūt: qd̄ eſt ↄcedēdū. Silr̄ eūdē locū appetit q̄n eſt pars alteriꝰ ꝛ q̄n eſt ꝑ ſe: ſʒ nō ſeq̄t̄ vltra: ḡ inclinat̄ vt cētrū eius ſit cētrū mūdi: q͂z cētrū eiꝰ eē cētrū mūdi nō cadit ꝑ in eiꝰ appetitu: ſʒ locus ſic diſtās in vniuerſo eſt ꝑ cadēs in eius appetitu: q͂z dī q̄n ↄiūgit̄ alteri ita ꝙ eſt pars totiꝰ: eiꝰ appetitꝰ erit pars totiꝰ appetitꝰ: ꝛ ſic erit iuuatm̄ ꝛ nō īpeditm̄ in totiꝰ motu. ¶ Et ad 2m̄ arm̄ ↄcedit̄ ꝙ nāliter recedit: q͂z eſt pars totiꝰ: ꝛ eiꝰ appetitꝰ eſt pars totiꝰ appetitꝰ: ideo per eiꝰ appetitū ꝑpriū vt eſt pars alteriꝰ appetitꝰ. ſ. totiꝰ recedit a cētro: q͂z iuuat totū ad deſcēſuꝫ. Et q̄n ↄcludit̄ ꝙ graue nāliter aſcēdit: idē ↄcedit̄: vbi. ſ. idē graue eſt pars alteriꝰ: et ſilr̄ aliq̄n aſcēdet nālr̄ in ſec̄ndo aliō corpus ſic ſubtracta terra a qua deſcēderet. Et ex appetitu ēt iſtiꝰ ꝑtis vltra cētrū vt eſt pars totiꝰ appetitꝰ iuuat̄ totū ad deſcēſuꝫ: ex cuiꝰ deſcēſu ſeq̄t̄ aſcēſus illiꝰ ꝑtis: ſʒ nunq͂ꝫ aſcēdit graue tanq͂ꝫ ad terminū vltm̄ ſibi acq̄rēdū. ſemꝑ. n. appetit locū īfimuꝫ vt eſt in tali ſpecie. ¶ Ad 3m̄ arm̄ ↄtra pōnē ↄcedit̄ ↄclō ꝙ nullā hēt reſiſtētiā: ꝛ ēt ↄcedm̄ eſt ↄclō ad quā deducit̄: q͂z in caſu ex aſcēſu elīti leuis in illo mixto ſeq̄t̄ totiꝰ deſcēſus: ſic ꝑʒ in caſu ibi poſito. Et ideo tūc ex itenſe illiꝰ leuitatis acq̄ret̄ iuuatm̄ toti quo ad eiꝰ deſcēſuꝫ. ¶ Ad 4m̄ ēt arm̄ ↄcedit̄ ↄclō ad quā deducit̄: q͂a remiſſa leuitate totuꝫ nullā hēt reſiſtētiā: ideo ibi nō hēt motū: ideo illa arm̄ nō vadūt cōtra pōnem. ¶ Cōtra poſitionē ꝑmā eſt p͂m argm̄ in eius oppoſituꝫ factū fortiſſimū: q͂a eſt impoſſibile ꝙ aliqd appeteret aliqd nāliter qd̄ attingere non poſſet ꝛc̄.

¶ Tractatus 12ꝰ De luminoſis.

De luminoſis ſeq̄t̄ ꝑtractare. Et ꝑ p̄ penes qd attendit̄ poa luminoſi. 2o de eiꝰ actiōe in me᷑. ¶ Pro p̄ ꝑte dictuꝫ eſt: vbi tāgit̄ penes qd attēdit̄ poa rei q̄lificate: q͂a penes multitudinē foꝛ: ubiqꝫ dcm̄ eſt ꝙ q̄ntitas ad poa nihil facit: ꝛ ideo ↄdēſatio nō facit totū eē maioris poe vel minoris nec deꝑditio q̄ntitatis niſi fuerit ꝑ accñs: vt dato vno calido vl' luminoſo ꝑ totū: cuiꝰ vna certa pars auferat̄ manēte ꝑte reſidua ſicut eſt in p͂n: ꝛ ſeq̄t̄ ꝙ totū diminuet̄ in poa: q͂z minꝰ tūc hēbit de foꝛ q̄ꝫ nūc hʒ: h̄ tñ nō erit rōne deꝑditionis mā̃e ſeu q̄ntitatis: ſʒ rōne foꝛ exten̄ in illa mā̃: que ſimul auferr̄ cū illa mā̃. ꝛ ideo ſtarēt duo eē eq̄lia q̄ntitate ꝛ eque itēſa: dum tñ vnū foret maioris poe q͂ꝫ reliquū: vt ſatis eſt ꝑarguatū. Si tñ ſint oīa ſilia: ita ſ. ꝙ ſint eque iten̄ ꝛ vnū tm̄ ↄtineat de foꝛ ſicut reliquū vt eſt q̄n equalr̄ ↄtinet de mā̃ ſicut ꝑdictū eſt: tūc neutrū eſt maioris poe q͂ꝫ reliquū. Fiat ḡ hic locutio ſꝑ de eq̄libus ꝛ eque intēſis iuxta vltm̄ modū. ſ. ꝙ ſint ſilia oī mō. i. ꝙ in oī ꝑte vniꝰ ſit ita de multitudine foꝛ ſicut in ꝑte eq̄li alteriꝰ. Uocet̄ igit̄ equalr̄ itēdi in gu vt q̄n vnū itēdit̄ ꝛ fiet itēſiuſ: ꝛ reliquū ſit itēſiuſ ꝑ latitudinē eq̄lē: ꝛ ſi ſint eq̄lia ꝙ vnū ita multū acq̄rat de foꝛ ſicut reliquū: ꝛ ſi ſint ineq̄lia ꝙ vnū plus acq̄rat de foꝛ q͂ꝫ reliquū: ſicut dato vno vnifoꝛ per totū qd̄ itēdat̄ manēs ↄtinue vnifoꝛ: ꝛ ſeq̄t̄ ꝙ per eq̄lē latitudinē fiet totū eque iten̄ ſicut medietas: ꝛ tñ in duꝰ plus de foꝛ acq̄ret totū q͂ꝫ medietas. Fiat ſilr̄ hic locutio de ꝑditiōe mā̃e q̄n pars mā̃e auferr̄ cū ꝑte foꝛ: q͂z aliter nō deꝑderet̄ poa. ¶ His ſuppoſitis hic itellectꝫ eliciunt̄ regule vel ↄ̃nes: q̄rū p͂a eſt hec. p͂a rega
Si ſint duo luminoſa eq̄lia in q̄ntitate: quoꝝ vnuꝫ ſit alio itēſiuſ: ita ꝙ pluſ ↄtineat de foꝛ: que equeuelociter diminuāt̄ in q̄ntitate: ꝑportionalr̄ ſicut vnū eſt alio itēſius: ita velociꝰ diminuet̄ in poa: q͂z ꝑportionalr̄ ſicut vnū eſt alio itēſius: ita plus ↄtinet de foꝛ: ꝛ ita eſt maioris poe: ꝛ ſic eſt pars q̄libet vniꝰ maioris poe q͂ꝫ ꝑs ſibi eq̄lis correſpōdēs alteriꝰ: ḡ ſi equeuelocr̄ deꝑderet̄ de ꝑtibꝰ coꝝ ſicut vnū eſt alio itēſius: ita plus deꝑdit de poa: vt ſi vnū eēt ꝑ totū vt 4or ꝛ reliquū vt duo ꝛ vtriuſqꝫ deꝑderet̄ medietas vtrūqꝫ fieret in duꝰ minoris poe q͂ꝫ eſt in p͂n: ꝛ vnū eſt alio in duꝰ maioris poe ꝛ ſꝑ erit: ꝛ per ↄ̃ns in dupꝰ velociꝰ diminuet̄ idē in poa. ¶ 2a eſt h̄: ſi ſint duo 2a
luminoſa ineq̄lia q̄ntitate ꝛ eque iten̄ que equeuelocr̄ ꝑ totū remittant̄ ſicut vnū eſt alio maioris q̄ntitatis: ita velociꝰ remittet̄ in poa. ſic. n. vnū eſt alio maioris q̄ntitatis: ita eſt maioris poe: ꝛ ↄtinue erit. ¶ 3a ſi ſint duo luminoſa eq̄lia in q̄ntitate: 3a
ꝛ ineque iten̄: que equeuelocr̄ ꝑ totū remittant̄ in gu ſtante q̄ntitate: illa equeuelocr̄ remittent̄ in poa: q͂z ibi erit eq̄lis deꝑditio foꝛ: vt ſi a. ſit in duplo itēſius. b. ꝛ eq̄le ſilr̄ loquēdo vt ꝑus: ita ꝙ a. in duꝰ ſit itēſius ꝛ in dupꝰ plus ↄtinēs de foꝛ: tūc ſi b. remittet̄ ad nō gm a. remittet̄ ad ſubdum̄: vt ↄſtat. Cuꝫ ḡ inter poam a. ꝛ gm ſubduplū ſit tāta latitudo ſicut inter poam b. ꝛ nō gm: ſeq̄t̄ ꝙ tātā poam deꝑdet a. ſicut b. ¶ Silr̄ 4a
ſi ſint duo luminoſa ineq̄lia ꝛ eque itēſa in ḡdu que equevelociter diminuent̄ in q̄ntitate ſtātibꝰ itenſionibꝰ equeuelociter diminuent̄ in poa: q͂z ex quo ſunt eque itenſa loq̄ndo vt ꝑus ſicut vnū eſt alio maius: ita plus ↄtinet de forma: ꝛ oīs pars vniꝰ tm̄ ſicut pars eq̄lis alterius. ḡ in deꝑditione partiū eq̄liū q̄ntitatis equalr̄ deꝑdet̄ de forma: ꝛ per ↄ̃ns equalr̄ de poa. Exēpla facilr̄ patent. ¶ Ex his deducit̄ ꝙ 5a
eq̄lis remiſſio per totū in gradu rem eq̄lis q̄ntitatis equalr̄ facit: ſiue ſint eque itenſa ſiue nō. ¶ Silr̄ eq̄lis deꝑditio 6a
q̄ntitatis rem eque intēſoꝝ: ſiue ſint eq̄lia ſiue ineq̄lia equaliter faciet ad deꝑditiōeꝫ poe vniꝰ ſicut poe alteriꝰ. ¶ Ex Corm p͂m
ꝑdictis īfert̄ ꝙ ſi ſint duo luminoſa ineque itenſa ſiue eq̄lia ſiue ineq̄lia que equeuelocr̄ diminuant̄ in q̄ntitate ſtāte gradu: ꝑportionalr̄ ſicut vnuꝫ eſt alio itēſius: ita velociꝰ diminuet̄ in poa. h̄ ſic ꝑʒ: ſit a. itenſius. b. ſiue eq̄le ſibi ſiue inequale: ꝛ ſit c. eque itenm̄ cuꝫ a. ꝛ eq̄le ipſi. b. ꝛ diminuant̄ oīa equeuelociter in q̄ntitate: ꝛ ſit f. ꝑportio in qua a. ꝛ c. ſunt itenſiora. b. tūc per p͂aꝫ ↄ̃neꝫ in f. ꝑportione velocius diminuet̄ c. in poa q͂ꝫ b. ꝛ per 4am ꝛ per 6am c. equeuelocr̄ diminuet̄ in poa ſicut a. q͂a illa erūt eque itenſa: ꝛ equeuelocr̄ diminuent̄ in q̄ntitate. ḡ in f. ꝑportione velocius diminuet̄ a. in poa q͂ꝫ b. qd̄

2m fuit pbādū. ¶ Siłr ſequit̃ ꝙ ſi ſint duoineq̄lia in quā
titate ſiue eque itenſa ſiue ineque itenſaq3 equevelo' cō
tinue remittant̃ per totū in gradu ſtāte q̄titate ꝓpoꝛ' ſic
vnū eſt alio maius:ita velocius remittet̃ in po^a. Sit enī
a.in.f.ꝓpoꝛ^e maius.b.ſiue eque iten^m cū.b.ſiue ineque in
tēſū:ꝛ ſit.c.eq̄le.a.ꝛ eque iten^m cū.b.ꝛ remittant̃ oia eq̄ue
lociter ſtāt̃b^9coꝝ q̄titatib^9:tūc per 2^{am} ꝯnē in.f.ꝓpoꝛ^e ve
locius remittet̃.c.in po^a q̄3.b.ꝛ per 5^{am} ſeu 3^{am} equalr remit
tent̃.a.in po^a:ḡ in.f.ꝓpoꝛ^e veloci^9 remittet̃ in po^a.a.q̄3.b.
qḋ fuit pban^m. ¶ Oēs iſte ꝯnes pñt etiā pbari multo me
lius iuxta illos qui ponūt ꝙ depditio q̄titatis ſine depdi
tione foꝛ^e facit ad depditionē3 po^e:ꝛ fierēt tūc ꝯſiles pba
tiones ſicut nūc. Jtē tot ꝯnes ſequūt̃ in via maioꝛatiōis
q̄titatis ꝛ itēſionis in gradu quo ad maioꝛatiōe3 po^e ſicut
nūc ſequūt̃ in depditione vtriuſq3:vt notum eſt. ¶ Per
has ꝯnes facilr ſoluūt̃ arg^{ta} cōia falſū ꝯcludētia. Quoꝝ
p^m eſt.v3.ꝙ aliq̄ ſunt ineq̄lis po^e ꝛ ſine depditione po^e ſu
bita equecito deueniēt coꝝ po^e ad nō g^m:ꝛ tn̄ illa eq̄uelo
citer ꝯtinue remittent̃ in po^a. ¶ Et 2^m ꝙ.a.ꝛ.b.ſunt eq̄lis
po^e:ꝛ velocius ꝯtinue diminueret̃ in po^a.a.q̄3.b.ꝛ tn̄ eque
cito deueniēt ad nō g^m po^e. ¶ 3^m eſt ꝙ.a.ꝛ.b.ſunt equalis
po^e que equevelo^r ꝯtinue augmētabunt̃ in po^a:ꝗrū3 vnū
in fine erit alio maioꝛis potētie. ¶ 4^m eſt aliqḋ diminuet̃
ad nō gradū po^e:qḋ ſolū remittet̃ ad gradū finite potētie.
6^m arg^m ¶ Primū ſic ar^r. Sint.a.b.eque itēſa:ꝛ ſit.a.maioꝛis quā
titatis q̄3.b.ꝛ remittātur ad nō gradū in foꝛma ſtāte vtri
uſq3 q̄titate:ꝛ ſeq̄t̃ ꝙ.a.eſt maioꝛis po^e q̄3.b.ꝛ ꝙ eq̄uelo
citer diminuet̃ in po^a cū3.b.arguit̃ ſic. Neutrū diminuet̃ in
po^a niſi rōne remiſſionis foꝛ^e et eq̄uelociter remittet̃ foꝛ^a
vni^9 ſicut foꝛ^a alteri^9:ḡ eq̄uelociter remittent̃ in potētia ꝛ
equecito remittent̃ ad nō gradu3 po^e:q2 remiſſis foꝛmis
ad nō gradū remittent̃ potētie ad nō gradū:ꝛ nō erit ſu
bita deperditio potētie:q2 īfinite modice po^e erit vtriuſq3
2^m ante finē. ¶ Scdm ꝯſilr arguit̃. ſint eni3.a.b.eq̄lia intēſi
ue ꝛ extēſiue:ꝛ diminuant̃ ad nō quātū eq̄uelociter ꝛ intē
dat̃.b.in gradu:ita tn̄ ꝙ ſua po^a remittat̃ ꝛ ſtet.a.in gra
du tūc.ꝙ.a.ꝯtinue diminuet̃ in po^a velocius q̄3.b.arguit̃:
q2 ſi.a.itenderet̃ in gradu ſicut.b.eq̄uelociter remitteret̃
in po^a ſicut.b.ſ3 itenſio gradus in.b.īpedit remiſſionē po
tētie:q2 facit ad eius itēſionē3:ḡ nūc velocius remittet̃.a.
3^m in po^a q̄3.b.ſequit̃ ḡ ꝯclo. ¶ Tertiū ſic arguit̃. Sint.a.b.
duo eque itēſa ꝛ ſub eodē gradu quātitatis:ꝛ intēdat̃.a.in
gradu ad duplū:ꝛ maioꝛet̃ etiā in q̄titate ad duplū:ꝛ itē
dat̃.b.in gradu in duplo velocius q̄3.a.tūc ꝙ.a.b.eq̄uelo
citer itēdent̃ in po^a arguit̃ ſic.tātū faciet itenſio foꝛme.a.
ad maioꝛationē ſue potētie ſicut maioꝛatio ſue q̄titatis:ꝛ ex q̄
eque ꝓpoꝛ^r maioꝛabunt̃ q̄titas ꝛ gradus:ꝛ in duplo plus
faciet itenſio gradus in.b.q̄3 in.a.ex q̄ in duplo veloci^9 in
tēdet̃.b.q̄3.a.ḡ tātū faciet iten^o in gradu in.b.ſicut itenſio
gradus in.a.ꝛ maioꝛatio ſue q̄titatis. Uel ſic ſi ſtaret gra
dus in.a.ꝛ q̄titas maioꝛaret̃ ad duplū tātū po^{am} acqreret
a.ſicut ſi itēderet̃ in gradu ad duplū ꝛ ſtaret q̄titas:ꝛ etiā
in omni inſtāti eque ꝓpoꝛtionabilr maioꝛaret̃ po^a.a.ſicut
ſua q̄titas ſi ꝑtūc ſtaret in gradu:ꝛ etiā eque ꝓpoꝛ^r maio
raret̃ in po^a ſicut in gradu ſi ſtaret q̄titas. Cū ḡ pro omni
inſtāti eque ꝓpoꝛtionabilr maioꝛabit̃ gradus illi^9.a.ſicut
q̄titas:ſeq̄t̃ ꝙ ꝯtinue tātū faciet itēſio in gradu ad itēſio
nē3 potētie.a.ſicut maioꝛatio ſue q̄titatis ꝛ ecōtra. S3 ſi nō
maioꝛaret̃ in q̄titate in duplo tardius intēderet̃ po^a.a.q̄3
po^a.b.ḡ nūc eq̄uelociter itēdet̃ po^a.a.ſicut po^a.b.ꝛ tn̄ in fi
ne erit.a.maioꝛis po^e q̄3.b.q2.b.in fine erit ꝑcīſe in triplo
maioꝛis po^e q̄3 nūc eſt:ꝛ.a.tūc erit in q̄druplo maioꝛis po^e
q̄3 nūc eſt. Maioꝛ p3:q2.b.itēdet̃ ad triplū in gradu vt cō
ſtat. Et minoꝛ ſic ar^r. Sit.c.tāte q̄ti^{tis} ſic in pn^o eſt.a.ꝛ eque
iten^m ſicut eſt.a.in fine:ꝛ ſeq̄t̃ ꝙ.c.eſt in pn^o in duplo maioꝛis
potētie q̄3.a.q2 eſt eq̄lis q̄titatis cum.a.ꝛ in duplo itēſius
eo:ꝛ in fine erit.a.in duplo maioꝛis po^e q̄3 eſt.c.ex quo tūc
erit eque intēſū ſicut nūc eſt.c.ꝛ in duplo maioꝛis q̄tita
tis q̄3 eſt.c.ḡ.a.in fine erit in q̄druplo maioꝛis po^e q̄3 nunc
eſt.ꝛ ſi ſic tūc erit.a.maioꝛis po^e q̄3.b.qḋ fuit arguēdū.



¶ Quartū ſic ar^r. Sit.a.vnū luminoſū vnifoꝛ^e:cui^9 q̄ti 4^m
tas minoꝛet̃ vni^r ad ſubdu^m ꝛ ſit lumē tūc ſi nō remitteret̃
in g^u minoꝛaret̃ in po^a ad ſubduplū. Et tātū ꝯti^e faciet re
miſſio in g^u ad minoꝛatōe3 ſue po^e ſicut diminutio q̄titatis
ex q̄ ꝯti^e eq̄ꝓpoꝛ^r minoꝛabunt̃ q̄titas ꝛ lumē.ḡ rōne di
minutiōis in q̄ti^{te} ꝛ remiſſiōis in lumine minoꝛabit̃ eius
po^a ad nō g^m:ꝛ tn̄ nō remittet̃ ad nō g^m po^e:q2 in fine erit
certe q̄titatis diſpoſitū certo g^u lumīs. ¶ Jtē arg^r ꝙ aliq̄ 5^m
ſunt 2^e lumi^{noſa} eq̄les que eq̄cito depdent̃ ad nō g^m:q̄rū vna
alia ꝯtinue remittet̃ veloci^9. Sint eī3.a.b.2° luminoſa oī
no ꝯſilia ꝛ remittat̃ lumē.a.vnifoꝛ^r ad nō gradu3 in hoꝛa
ꝛ eq̄ꝓpoꝛ^r maioꝛet̃ q̄titas:ita ꝙ cōti^e maneat eq̄lis po^e
ſicut nūc eſt:ꝛ augmētet̃.b.ꝯſilr ſicut.a.ſed remittat̃ ſic in gra
du ꝙ ſua po^a remittat̃ ꝯti^e que remittat̃ ad nō g^m in eadē
hoꝛa:tūc.b.ꝯtinue veloci^9 remittet̃ in g^u q̄3.a.q2 ſi eq̄uelo^r
cum.a.vel tardi^9 tūc nō remitteret̃ ſic nec.a.q2.b.ꝯtinue
equevelociter augmētabit̃ ſicut.a. S3 per caſu3.b.ꝯtinue
remittet̃ in potētia.ergo velocius cōtinue remittet̃ in lu
mine q̄3.a.ꝛ iam equalr diſtant.a.b.a nō gradu luminis ꝛ
eq̄cito remittent̃ ad nō g^m:q2 in illa hoꝛa.ḡ ſequit̃ ꝯcluſio.
¶ Pro oībus iſtis rñdet̃ per regulas ſuppoſitas:q2 in caſu Ad arg^a
poſito ad p^m ar^m:l3 eq̄uelox erit remiſſio in g^u re^a.a.b.q2 tn̄
a.plus h3 de foꝛ^a q̄3.b.ideo plus deperdet.a.de po^a q̄3.b.ꝛ
tūc nō ꝓcedit ar^m ſicut non ꝓcedit de toto ꝛ medietate eius
de3:vt dato luminoſo vniformi totū eſt in duplo maioꝛis
po^e q̄3 medietas:ꝛ eq̄uelo^r remittet̃ in caſu ſicut medietas
ꝛ ſemꝑ erit maioꝛis po^e q̄3 medietas in eadem ꝓpoꝛ^{ne}.ſ.in
duplo maioꝛis po^e q̄3 medietas:ꝛ ſic eſt de.a.ꝛ.b.ꝛ ſic non
valet ar^m.ꝛ ponit̃ cā:q2 eq̄lis depditio in g^u plus re^a q̄tita
tis maioꝛis q̄3 minoꝛis facit ad depditionē3 po^e. ¶ Et ſic Ad 2^m
etiā ſoluit̃ 2^m ar^m:q2 admittat̃ caſus ꝛ ꝯcedit̃ ꝙ per aliqḋ
tēpus velocius remittet̃.a.in po^a q̄3.b.ſ3 nō ꝯtinue. Et ra
tio eſt:q2 diminutio q̄titatis.b.cōtinue plus ꝛ plus faciet
ad minoꝛationē potētie.b.q̄3 diminutio q̄titatis.a.ad mi
noꝛationē potētie.a.q2.b.equalr diminuet̃ cu3 lumine in
tēſioꝛi ꝛ intēſioꝛi.ꝛ ideo l3 intēſio luminis.b.per aliqḋ tp̄s
īpediet remiſſionē potētie.b.nō ꝯtinue ita faciet.i.nō ꝯti
nue faciet vt totum.b.ꝯtinue tardius remittat̃ in po^a q̄3 ſi
ab initio nō fuiſſet intēſio facta:ſ3 pro omni īſtāti īpediet
remiſſionē.

remiſſionē:ita ꝙ pro illo inſtāti tardius remittet in poª ꝙ̄
ſi nūc nō intēderet lumē:ſ; nō faciet ꝙ totū tardius remit/
tet in poª in illo inſtāti ꝙ̄ ſi nō foret intēſio luminis ab ini/
tio.nec adhuc eſt neceſſe ꝙ.a.aliqn̄ tardius remittat in poª
ꝙ̄.b.ſ; ſtat ipm̄.b.ſic velociter intēdi in gª ꝙ.a.ꝯtinue velocius
remittet in poª ꝙ̄.b.ſtat eti;.b.ſic intēdi in gª ꝙ pro oi inſtāti
erit tāte poª ſicut nūc eſt vt ꝯſtat:vt poſito ꝙ eque propor/
tionabiliter maioret in gª ſicut minorat in q̄titate:ꝛ tūc dicet
ꝙ ſubito deꝑdet magna latitudo potentie.b.ꝛ ſic nō ꝓce/
dit argm. ¶ Si tn̄ ponat ꝙ nulla latitudo ſubito deꝑdat
ſic eſt qn̄ intēdit ad gm ſolū finitū luminis:tūc dī ꝙ aliqn̄
velocius remittet.b.in poª ꝙ̄.a.qđ ſic declarat.Et ꝑ arg ꝙ
vbicūq; eſt luminoſu; aliqđ:cuius q̄titas minorat ad nō
q̄tū ꝛ gradus intēdit ſolū ad gm finitū:ꝙ illud luminoſu;
remittet ad nō gm nullā latitudinē ſubito deꝑdēdo:q2 ſit.a.ta/
le:ꝛ ſit.b.eq̄lis q̄titatis cū.a.ꝛ minoret quātitas vtriuſq;
ſucceſſiue ad nō q̄tū:ꝛ ſit.b.in pn̄ti ſub eodē gª luminis ad
quē intēdet excluſiue lumē.a.quē.ſ.hēret.a.in fine ſi mane/
ret:ꝛ nō intēdet.b.in gradu nec remitteret:quo poſito.b.
ꝯtinue erit maioris poª ꝙ̄.a.g.a.b.ꝯtinue erit intēſius ꝙ̄.a.ꝛ
eq̄lis q̄titatis cū.a.ꝛ.b.ſucceſſiue remittet ad nō gm,nullā
latitudinē ſubito deꝑdēdo:g a fortiori.a.nullā latitudinē ſubi/
to deꝑdet.ꝯña ꝛ maior patēt ꝛ minor argr.eq̄ꝓpor mi/
norabit poª.b.cū ſua q̄titate:ſ; q̄titas ſucceſſiue minora
bit ad nō q̄tū:g ꝛ poª. Uel ſic.poª aliqn̄ erit in duplo minor
ꝙ̄ nūc eſt:ꝛ aliqn̄ in q̄druplo minor:ꝛ ſic in infinitū:q2 eq̄ꝓ/
portionabiliter minorabit cū q̄titate:g.b.nullā latitudinē;
poª ſubito deꝑdet.ſeq g ꝯcl'o. ¶ Ex h igit deducit ꝙ ſi
luminoſu; aliqn̄ diminuat ad nō q̄tū ꝛ intēdat in lumine
ad gm ſolū finitū ꝙ aliqn̄ velocius remittet in poª ꝙ̄ ſi ab
initio nō foret in eo intēſio luminis. Sit eni;.b.tale:cuius
q̄titas minoret ad nō q̄tu; ꝛ lumē ad gm ſolū finitū intē/
dat:ꝛ ſit.a.oīno ſile.b.cuius q̄titas minoret ad nō q̄tu; ſi/
ne acq̄ſitione luminis ſicut eſt in caſu poſito ad ꝓbōnē iſti
ſcdi falſi.Et arguit ꝙ.b.aliqn̄ velocius remittet in poª ꝙ̄.a.
q2 ex quo quātitas minorabit ad nō quātū:infinitū modicu;
aliqn̄ faciet intēſio luminis ad intēſionē ſue potētie:ꝛ mino/
ratio q̄titatis cū illa intēſione in gradu ꝯtinue plus ꝛ plus
faciet ad remiſſionē; potētie.g aliqn̄ maior erit exceſſus
remiſſionis potētie correſpōdētis minorationi ſue q̄titatis ad
intēſionē potētie correſpōdētis intēſioni in lumine ꝙ̄ erit latitu
do inter gm quo ꝯtinue diminuet.a.ꝛ nō gm:q2.a.ꝯtinue vnifor
miter minorabit ad nō gm potētie:ſicut p; per ꝯnē 6am:ꝛ
exceſſum inter illā minorationē; potētie correſpōdētē minora/
tioni q̄titatis ꝛ maiorationē; potētie correſpōdētē maioratio/
ni luminis correſpōdebit remiſſio ſue poª in.b.vt p;.g aliqn̄
velocius minorabit.b.in poª ꝙ̄.a.Exm ad h eſt tale.pona
tur ꝙ minoratio potētie.a.per minorationē; q̄titatis ſit vt
4or ꝯtinue.ꝛ ponat ꝙ lumē.b.intēdat vniformiter ad du
plū ꝛ dcē inſtās mediū totius tpis:tūc erit q̄titas.b.in dupº
minor ꝙ̄ nūc eſt:ꝛ lumē tūc eque velociter intēdet ſicut nūc.g ꝑ
ꝯnē 6am in duplo minus faciet intēſio luminis ad maiorationē
totius potētie ꝙ̄ nūc incipit:ꝛ nūc incipit facere vt 4or:vl in
nulla ꝓportione minus:q2 in nulla ꝓportione incipit tardius ꝓportionem
lumē intēdi ꝙ̄ quātitas minorari.g tūc intēſio luminis tūc fa/
ciet ſolū vt 2o ad intēſionē potētie:ꝛ minoratio q̄titatis.b.
tūc faciet ſex ad minorationē; potētie:q2 tūc eque velociter dimi
nuet ſicut nūc incipit ꝛ tpm̄:tūc erit in ſexqualtero intēſius ꝙ̄
nūc eſt:ꝛ nūc faciet vt 4or:g tūc faciet vt ſex.ꝯña per ꝯnē
7am ſatis p;.g tūc erit exceſſus remiſſionis ꝑ minorationē;
q̄titatis ſupra intēſionē potētie ꝑ intēſionē luminis vt 4or:ꝛ
tūc totū remittet in poª gª vt 4or.ꝯña p;:q2 ſi nō intēderet
in lumine remitteret tūc gª vt ſex:ꝛ intēſio luminis tollet de illa
remiſſione ſolū vt duo:ꝛ ſic in illo inſtāti eque velociter remittet.b.
in poª ſicut.a.ꝛ ꝯtinue poſt velocius:ꝛ ſic ſeq illa ꝯcl'o 10a.ꝛ ſol/

uit argm ad ꝓbōnē illius 2i falſi. ¶ Ad 3m rñdet admittēdo Ad 3m
caſum:ꝛ dī ꝙ.a.ꝯtinue velocius intēdet in poª ꝙ̄.b.ꝛ negat ꝙ in
duplo plus faciet intēſio luminis in.b.ad intēſionē ſue poª ꝙ̄ intēſio
luminis in.a.ſ; in duplo velocius intēdat lumē in.b.ꝙ̄ in.a.q2 intē
ſio luminis in.a.erit ꝯtinue reſpectu q̄titatis maioris ꝙ̄ in.b.Et ideo intēſio
luminis in.b.nō plus faciet ꝙ̄ intēſio luminis in.a.ꝛc.ſ; intēſio
luminis in.a.tm̄ faciet ſicut maioratio q̄titatis ad intēſionē; ſue
poª:ꝛ vtrūq; ꝑ ſe deducta alia in duplo minus faciet ꝙ̄ intēſio
luminis in.b.ideo nō ſeq ꝙ illa duo nūc tm̄ faciēt ꝓciſe ſicut
intēſio luminis in.b.q2 intēſio luminis in.a.plus faciet rōne maio/
rationis ſue q̄titatis ꝛ eꝯ ꝛ ſic nō ꝓcedit argm. ¶ Ad aliud g dī Ad 4m
admittēdo caſu; ꝛ negat ꝙ minorabit ad nō gm poª.ꝛ ne/
gat ꝯña illa ſi nō minoraret in q̄titate remitteret ad ſubduplum
in poª:ſ; nūc minoratio q̄titatis tm̄ ꝯtinue faciet ad remiſſionē;
poª ſicut remiſſio luminis:g rōne diminutionis q̄titatis ꝛ remiſſiōis
luminis minorabit eius poª ad nō gm:q2 minoratio in lumine nūc
nō facit tm̄ ad minorationē; ſue poª ſicut faceret ſi nō mino
raret in q̄titate nec eꝯ. ¶ Per iſta ꝓſuppoſita rñdet ad 5m Ad 5m
negando illud ꝛ admittendo caſu;:ꝛ negat ꝙ.b.ꝯtinue velocius remit/
tet in gª ꝙ̄.a.ſ;.b.remitteret in poª ꝛ nō.a.q2 quocūq; inſtāti
poſt h dato ſi.b.ꝓtūc remitteret in lumine eodē gª quo.a.
tūc.b.remitteret in poª. Qđ ſic arr:q2 tūc remiſſio.b.in gª
eq̄lr faceret ad remiſſionē ſue poª:ſicut remiſſio luminis.a.fa
ceret ad remiſſionē; ſue poª:ſicut p; ꝑ ꝯnē 5am:ex quo eo2 q̄ti/
tates erūt tūc eq̄les.cū g.b.tūc erit remiſſius ꝙ̄.a.q2 erit eq̄/
le.a.ꝛ minoris poª ꝙ̄.a.p; ꝙ maioratio q̄titatis.b.tūc minus
faceret ad maiorationē; ſue poª ꝙ̄ maioratio quātitatis.a.ad
maiorationē; ſue poª.Sꝫ in oi inſtāti tm̄ faciet maioratio
q̄titatis.a.ad maiorationē; ſue poª ſicut remiſſio ſui luminis faciet
ad remiſſionē ſue poª:ex quo nō intēdet in poª nec remittet.g
p; ꝙ ſi pro aliquo inſtāti eque velociter ꝓciſe remittet.b.in lumine
cū.a.ꝙ tūc plus faceret remiſſio ſui luminis ad minorationē;
ſue poª ꝙ̄ maioratio ſue q̄titatis ad maiorationē; ſue poª:g ſi
eque velociter pro aliquo inſtāti remitteret.b.in gª cū.a.ſeq ꝙ tunc
remitteret.b.in poª:g non ſeq.b.ꝯtinue erit tāte q̄titatis
cū.a.ꝛ eque velociter maiorabit cum.a.ꝛc.ꝛ.a.nō remittet ꝛ
b.remittet:g.b.velocius diminuet in lumine ꝙ̄.a.

Cōtra ꝯnes ꝓdcās pōt argui deducēdo ꝙ ſi aliqđ au/ 3 ꝯnes.
gmētet a nō q̄to ꝛ a nō gª luminis ꝙ idē infinitū tarde
incipit maiorari in poª:q2 ex quo infinita modica incipit eē q̄titas
illius:infinite modicū incipiet intēſio luminis facē ad intēſionē poª:ꝛ
ēt infinitū modicū incipet maioratio q̄titatis facē ad intēſionē poª:
ex quo incipet eē reſpectu infinitū remiſſi gª:ꝛ ꝑ ꝯñs nō aliq̄lr velocius in/
cipet totū intēdi in poª rōne maiorationis q̄titatis ꝛ ēt intēſionis luminis.
g ſeq ꝯcl'o. ¶ In cuius oppm ſic arr.Sit.a.luminoſu; certe
q̄titatis:ꝛ diuidat hora in ptes ꝓportionales ꝓportione q̄druple:ꝛ in
oi pte ꝓportionali diminuat ad ſubduplum in q̄titate:ꝛ ēt remittat in
lumine ad ſubduplum:quo poſito in oi pte ꝓportionali huius hore ſic
diuiſe diminuet in poª.a.ad ſubq̄druplum:q2 in oi pte ꝓportionali
diminuet ad ſubduplum in q̄titate:ꝛ ad ſubduplum vnius in gª.g cum
2a pars ꝓportionalis iſtius hore ſit ſubq̄drupla ad pmā:ſeq ꝙ in 2a
pte ꝓportionali diminuet in poª eque velociter ſicut in pma:q2 in q̄druplo mi
norē latitudinē poª deꝑdet in 2a pte ꝓportionali ꝙ̄ in pma:eo ꝙ inter
oē; gm ꝛ ſuū ſubq̄druplum eſt in q̄druplo minor latitudo ꝙ̄ inter
eūdē ꝛ ſuū q̄druplum.Et ſic ꝑ idē arr ꝙ in 3a pte ꝓportionali eque velo
citer deꝑdet de poª ſicut in 2a:ꝛ ſic in infinitū.g totū finite tarde
deſinet in eius poª diminui:ꝛ cū tn̄ q̄titas minorabit ad nō
gm ꝙ̄ ēt lumē.g eꝯ poſſet illud augmētari a nō q̄to ꝛ a nō
gª luminis:ꝛ cū h ꝙ ſolū finite tarde incipet augmētari in poª.g
ꝯcl'o eſt falſa ſeq̄ns ex regulis ꝓpoſitis:g ille regule ſunt fal/
ſe. ¶ Pro illo dī ꝙ vbi tn̄ q̄titas ꝙ̄ ēt gm finite velociter incipit Rñ
augmētari ꝛ a nō gª ꝙ tūc in infinitū tarde incipit totū augmē/
tari in poª:qđ ſic p;.ponat idē de.a.ꝛ ſit.b.certe q̄titatis in quo
intēdat lumē a nō gª eque velociter ſicut in.a.ꝛ ſeq ꝙ.b.ſolū finite
velociter incipit augeri in poª:q2 eſt certe q̄titatis ꝛ certe velocitatis reſpectu

ſui iam illiꝰ lumē incipit intēdi: ſʒ īfinite velociꝰ incipit. b. itēdi in poª q̄ a. ḡ īfinitū tarde incipit. a. ɔ̄ñtia pʒ: ⁊ minor arguit. a nō gradu incipit poª vtriuſq̄ itēdi: ⁊ īfinitū maioris potētie incipit. b. eē q̄ a. ḡ in īfinitū velociꝰ incipit. b. itēdi q̄ a. ɔ̄ñtia pʒ: ⁊ minor ꝓbaṫ: q: īfinite maius incipit b. eē q̄ a. ⁊ ſub eodē gradu luminis: ḡ in īfinitū maioris potētie incipit. b. eē q̄ a. ⁊ per ɔ̄ñs īfinitū velocius incipit. b. itēdi in poª q̄ a. ⁊ ſic ꝓbaṫ pars affirᵐᵃ ɔ̄nis: vbi tñ quātitas ⁊ lumē in īfiᵐ velociter incipiūt acqri: tūc nō opʒ illaʒ ptē affirᵐᵃˢ fore veraʒ. Et illud ꝓbaṫ qñ arguit ad oppoᵐ ɔ̄nis. Et ꝙ in caſu iſto poſito infinite velociter deſinet lumē deꝑdi ⁊ ēt q̄ntitas/ſic pʒ. in oī pte ꝓporˡⁱ ſic diuiſa deꝑdeṫ lumen ad ſubduplū: ḡ in duplo minor latitudo luminis deꝑdeṫ in 2ª pte ꝓporˡⁱ q̄ in pª: ⁊ ipſa eſt ſubquadruplū: ḡ in duplo velocius minorabiṫ lumen in 2ª pte ꝓporˡⁱ q̄ in pª. ⁊ per idē argᵐ in duplo velociꝰ in 3ª q̄ in 2ª: ⁊ ſic in īfinitum: ḡ īfinite velociter deſinet lumē deꝑdi: ⁊ ſic oīno arguiṫ de deꝑditione q̄ntitatis. Ideo illud argᵐ bñ ꝓbat ꝙ a nō quāto pōt luminoſuʒ augeri ⁊ a nō gradu luminis itēdi: dum tñ finite velociter ſolū incipiat intēdi in potentia: ſcilʒ vbi incipit eſſe infinita velox acqſitio luminis: ⁊ etiā quantitatis ⁊ non aliter ⁊c̄.

¶ Tractatus 13ꝰ De actione luminoſi.

Equitur de actione luminoſi tangiṫ. Et pͦ nūqd omne luminoſuʒ agat totā ſuā latitudinē in omne mediū in qͦd ſufficit agere. Et 2º nūqd agat vniforˡ q̄ntū ad latitudinē. ¶ Cōtra pᵐ arguiṫ. Omne mediū pōt

Ɔtra pᵐ dubiū. meliꝰ diſponi ad ſuſceptionē luminis q̄ntūcūq̄ bñ diſponaṫ: ḡ nullū agēs ſpūale agit tā itēſe qn itēſius poſſit agere.

2 re. ¶ Item tūc ageret oēm gradū citra gradū quē habet. ɔ̄ñs falſuʒ: qͦd ſic arguiṫ. deṫ. a. luminoſum agēs in. b. mediū ſi. b. per totū diſponaṫ melius ad oēʒ pūctū itrinſecū intēdeṫ lumē. ḡ per idē cū nō īfinitū meliꝰ applicet pūcto ſibi imediato q̄ pūcto diſtāti: ſeqṫ ꝙ ad punctū ſibi imediatū pōt lumē intēdi rōne alicuiꝰ diſpōnis medij.

3 ¶ Itē ſeqṫ ꝙ nullius difficultatis eſt agere totā latitudinē a gradu ipſius. a. vſq̄ ad non gᵐ: qa q̄ntūcūq̄ modice potētie ſit aliqͦd luminoſuʒ ſub gradu. a. ipm ſufficit totā illā latitudinē agere. ¶ Itē ſigneṫ 2º pūcta: q̄rū vnū ſit ſibi imediatū ⁊ reliquū diſtās: tūc actio eiꝰ ad vnū pūctū ꝓportionaṫ actioni eiuſdē ad aliū punctū. Si ḡ per indiſpōnē medij

Rñſio pōt vna actio ipediri: ḡ ⁊ alia actio. ¶ Ideo forte dī ꝙ tale luminoſum nō agit gradū ſuū ſeu latitudinē a ḡdu ſuo ad nō gradū in omne meᵐ in qͦd ſufficit: ⁊ ēt ꝙ ad oēʒ pū

Cōtra ctū medij per eiꝰ indiſpōnē remitteṫ lumē. ¶ Cōtra. ex ꝟ ſeqṫ ꝙ tota latitudo luminis nō pōt induci: qa ſi ſic ſit. a. luminoſum agens per. b. pedale: ⁊ ſit ita ꝙ. a. nō inducat totā latitudinē vt ponit rñſio. vel ḡ pōt. b. rarefieri: ita ꝙ tota latitudo inducaṫ vel nō. ſi nō/ſequiṫ ꝙ illa latitudo eēt inanis ſicut locus eēt inanis in quo nihil poſſet locari. Silr̄ experimur ꝙ ita forte lumē ſentimus in medio ſicut in luminoſo agente vel in nulla ꝓporᵉ minus debile. Si ḡ dicaṫ alia pars ꝙ tota latitudo pōt induci: rarefiat ḡ. b. mediū: ⁊ ſit. c. inſtās in quo aget pᵐ per mediū. b. totā latitudinē illā: tūc. b. erit finite rarū. Si ḡ poſt rarefactionē nō intēdereṫ lumē ad pūctuʒ. b. ſibi imediatū: qa tota latitudo in. c. inſtāti induceṫ: quā. f. ipm ſufficit induceṫ. Ponaṫ ḡ. f. meᵐ magis rarū q̄ erit. b. in. c. inſtāti: ⁊ ſeqṫ ꝙ nō intēſius lumē aget tūc. a. in. f. q̄ in. b. indiſponaṫ ḡ. f. ad diſpōnē. b. ⁊ ſeqṫ ꝙ illa indiſpoſitio nō tollet eiꝰ actionē ad pūctū ſibi imediatū in. f. ḡ iterū poſſet fieri aliq̄ indiſpoſitio cuʒ ꝟ ꝙ nō remittereṫ lumē ad pūctū ſibi imediatū in. f. ⁊ ꝑ ɔ̄ñs non in. c. inſtāti ꝑ ſufficiet agere totā ſuā latitudinē in. b. mediū: ⁊ ſic pʒ vel ꝙ talis latitudo nō poſſet induci: vel ꝙ indiſ

2ª rñſio poſitio medij nō facit luminoſuʒ minꝰ itēſiue agiṫ. ¶ Pro 1º ḡ dī ꝙ luminoſuʒ agit ſubito totā ſuā latiᵗᵘᵈⁱⁿᵉ³ in oī medio vel in oīe in qͦd ſufficit agere: nō tñ ꝑ eq̄lē diſtātiā agit in omne meᵐ: ſʒ in meᵐ rarius agit per maiorē diſtātiā q̄ in

Ad arᵐ dēſius. ¶ Et tūc ad arᵐ pᵐ negaṫ ɔ̄ña. ¶ Et ad arᵐ 2ᵐ dī ꝙ vt ſic. a. in īfiᵐ meliꝰ applicaṫ ad pūctū ſibi imeᵗᵘᵐ q̄ ad pūctū diſtātē: qa in infiᵐ ꝓpinquus eſt idē qͦd eſt imeᵗᵘᵐ alicui q̄ ſit idē qͦd diſtat ab eodeʒ. ¶ Et ſic dī ad 3ᵐ ɔ̄ceᵈᵒ ꝙ nulliꝰ diffiᵗⁱˢ eſt agere tātā latitudinē ſicut eſt a gᵘ vſq̄ ad nō gᵐ: qa ab īfinita modica poᵃ huiꝰ latitudo pōt induci.

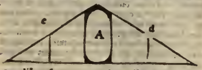
Nota ¶ Sʒ tūc ad 4ᵐ arᵐ negaṫ ɔ̄ña. ¶ Vñ pro ſolōne argᵗⁱ eſt nōnᵐ ꝙ qñ luminoſuʒ agit in mediū nō remittiṫ lumē ad pūctuʒ aliquē diſtātē niſi rōne indiſpōnis facte iter luminoſuʒ ⁊ pūctū illū: qa deṫ pūctꝰ mediꝰ gr̄a argᵗⁱ: ſi tūc nō fiat indiſpoſitio iter luminoſuʒ ⁊ illū punctū: tūc tota illa pars ɔtinue erit ſilis diſpōnis ſicut in pnᵒ: ḡ in illa pte eq̄lis actio erit ɔtiᶜ: ex q̄ luminoſuʒ illi pti ɔtiᶜ equalr̄ applicabiṫ. ¶ Itē ſi indiſpoſitio in pte vltra pūctū talē ad illū pūctū faceret lumē remitti: ſeqṫ ꝙ nullū luminoſuʒ poſſet agere totā ſuā latiᵗᵘᵈⁱⁿᵉ³ in meᵒ aliq̄ qualr̄cūq̄ eēt diſpoſitū: qa ſi ſic agat. a. in meᵐ. b. totā ſuā latiᵗᵘᵈⁱⁿᵉ³. ɔtra. diuidaṫ. b. mediuʒ in ptes ꝓporˡᵉˢ: ⁊ ſint minores ptes v̄ſus. a. tunc lʒ pͥma pars ꝓporˡⁱˢ eēt ablata. a. nō ageret ad pūctū ſibi imeᵗᵘᵐ gᵐ itēſiorē q̄ ſit gᵘ ſuus. Et ſilr̄ lʒ 2ª pars erit ablata ⁊ 3ª: ⁊ ſic in īfiᵐ. ſʒ per rñſionē pª pars ꝓporˡⁱˢ ſi reapponereṫ ipediet actiōeʒ: q: ſi indiſponereṫ ipediret actionē in illa pte itercepta: ḡ a fortiori lumē remiſſius agitur q̄ ſi illa pars eēt ſimplr̄ amota: ⁊ ſic 2ª pars ꝓporˡⁱˢ ipediret: ⁊ ſic in infiᵐ: ḡ nūc nō pōt agere gᵐ ſuū ad punctū ſibi imeᵗᵘᵐ: imo argᵗ ꝙ nullū gᵐ pōt agere ad pūctū imeᵗᵘᵐ: qa ſi in īfinitū modicū eēt meᵐ nō ageret gᵐ itēſiorē q̄ eſt gᵘ ſuꝰ: ḡ nūc nō agit aliquē gᵐ poſito meᵒ vniforˡ. Nā 2ª ps ꝓporˡⁱˢ ſm̄ iſtā diuiſionē aliq̄lr̄ ipedit actioneʒ ſuā ꝑ datū. ⁊ pª pars ꝓporˡⁱˢ tātū vel aliquātū ipedit: ḡ nō agiṫ in. b. aliq̄s gᵘˢ. Si. n. tātū ipediat pª pars ꝓporˡⁱˢ ſicut 2ª ⁊ eʒ: q: pª eſt dupᵃ ad 2ᵃᵐ: ⁊ in duᵒ plus diſtet pª ab. a. q̄ diſtat 2ª ab eodē. ḡ ꝑ idē 3ª tātū ipedit ſicut 2ª: ⁊ 4ª tātū ſicut 2ª: ⁊ ſic in īfiᵐ. ḡ oēs ille ptes totā eiꝰ actionē ipediūt. Si ḡ ponaṫ ꝙ pª nō tātū ipedit ſicut 2ª. ḡ 2ª plus ipedit q̄ pª. ⁊ per idē plus ipediret 3ª q̄ 2ª: ⁊ ſic in īfinitū. ḡ oēs ille ptes tātuʒ vel plus ipediēt q̄ a. ſufficiat ad pūctū imeᵗᵘᵐ agiṫ. ¶ Ideo forte dī ꝙ hꝫ ptes diſtātes ipediūt actionē ad pūcta diſtātia: ita ꝙ ad illā remiſſiꝰ lumē agiṫ q̄ ſi pars reſidua eēt ablata. ¶ Cōtra. ex ꝟ arᵗ ꝙ ad nullū pūctū itrinᵒᵘᵐ eſt actio: qa ſi tota pars vltima ipediat actiōeʒ ad illū pūctū ſit ille. d. ⁊ diuidaṫ tota ps illa in ptes ꝓporˡᵉˢ v̄ſus. d. ⁊ ſequiṫ ſi pª pars ꝓporˡⁱˢ illiꝰ ptis ipediet actionē ad. d. pūctū ꝑ aliq̄ latitudinē. ḡ per idē 2ª tātū ipediet ſicut pª. ſicut. n. eſt ſubdupla ad pᵃᵐ: ita ſm̄ ſe totā eſt in duplo ꝓpinquior. d. pūcto q̄ eſt pª pars ꝓporˡⁱˢ: ⁊ per idē 3ª tātū ipediet ſicut 2ª: ⁊ ſic in īfinitū. ḡ oēs ille ptes ipediēt tātū vel plus ad. d. pūctū q̄ a. luminoſum ad illū ſufficiat agere: ⁊ per ɔ̄ñs ad. d. non erit actio. ¶ Ad idē arguiṫ ꝙ ſcda pars ꝓporˡⁱˢ tātū ipediet ſicut pª: qa ſit. e. pūctꝰ medius inter pͥmā ptē ꝓportionalē ⁊. d. pūctū. vʒ. terminās 2ᵃᵐ: ⁊ capiaṫ pūctꝰ imediatꝰ illi pͥme pti ꝓportionali qui ſit. f. ⁊ arguiṫ ſic. Si pª pars ꝓportionalis eēt ablata ad iſtū pūctū. f. terminātē pͥmā eēt certꝰ gradus luminis actus ad quē pūctū nūc eſt actꝰ gradus in certa ꝓportione remiſſior. Sʒ ſcda pars ꝓporˡⁱˢ eq̄ bñ approximaṫ ad. e. pūctū ſicut pª ad pūctū datū. f. terminātē pͥmā: ḡ nō minus q̄ ſubduplū impediet 2ª pars ad. e. pūctū q̄ pª ad pūctū terminātē pͥmā qui ſit. f. Sʒ pª pars ꝓportionalis plus q̄ in duplo meliꝰ applicaṫ. f. puncto q̄. e. pūcto. ḡ pª pars ꝓporˡⁱˢ plus q̄ in duplo maiorē latitudinē ipediet ad. f. q̄ ad. d. Et ſi ſic totū impedimētū ſcde ptis ꝓportionalis ad. e. pūctū eſt maiꝰ q̄ impedimētū

pedimētuʒ prime ad eandeʒ. Minor pʒ: q2 p^a pars ꝓpor tionalis eſt imediata.f.c nō.e.pūcto. Et ex ꝯñia ſic arguit. Capiat latitudo per quā 2ª pars ꝓportionalis impediet actionē ad.e.punctū: ⁊ tota latitudo per quā p^a pars ꝓportionalis impedit ad eandeʒ que eſt minor: tunc vt poſt arguet: omne tale luminoſuʒ agit vnifor' diſformiter in mediuʒ vniforme. Dcī ergo tota latitudo que in pn° fuit acta inter.e.⁊ extremū cui applicat luminoſuʒ. Et ſequit exquo i^a latitudo fuit vnifor' diſformis deducta ꝑma pte ꝓportionali ⁊ ſcd̃a latitudo acta ibi deducta ꝑma parte ꝓportionali eſt vnifor' diſformis: ergo latitudo per quā impediet a ſcd̃a parte ꝓportionali eſt vnifor' diſformis: q2 ex duabus latitudinib⁹ quaꝝ vna eſt vnifor' diſformis non fit latitudo vnifor' diſformis niſi vtraq3 fuerit vniformiter diſformis: vt ꝓbat vbi tangit de inductiōe g° luminis: ⁊ vtraq3 latitudo per quā ipedit terminat ad nō gradum ad luminoſuʒ: ḡ ad oēm punctū iter.e.⁊ luminoſuʒ eſt maius ipedimentū per ſcd̃aʒ partē ꝓportiōalez q̄ʒ per ꝑmā: ⁊ vtraq3 latitudo eſt vnifor' diſformis. Seq̄t ergo ꝙ ad d.punctū tātū vel plus impediet ſcd̃a pars ꝓportionalis ſicut p^a: ⁊ per ſile ar^m 3^a tantū vel plus ſicut 2^a ⁊ ſic in ifi^m: ergo ad illum.d.punctū nihil erit actū qđ fuit ꝓbandum. ¶ Sequit igit illud ꝓbādum.ſ.ꝙ ad nulluʒ punctū erit remiſſio luminis ſtante luminoſo niſi rōne indiſpoſitiōis inter punctū ⁊ illud luminoſuʒ agēs. cū ergo inter luminoſum ⁊ punctū imediatū ſibi nulluʒ ſit mediū qđ indiſponi poſſit: ſequit ꝙ qualīcūq3 mediū remoti⁹ a luminoſo indiſponeret ad punctū ſibi imediatū nunq̄ʒ remitteret lumen: ideo nulluʒ ar^m ad oppoſitū ꝓcedit: q2 qđlʒ ſup hoc depēdet. vʒ. ꝙ indiſpoſitio mediȷ ad punctū ime^m ipediretur ſicut ad puncta intrinſeca qđ eſt iprobatū.

2^m du^m. Ad ſecūdum ergo arguit ꝑmo ꝙ luminoſum nō pōt agere latitudinē vni' diſformē a gradu ſuo vſq3 ad nō gradū per mediū vniforme: ⁊ hoc vnifor': q2 ſi ſic ſit.b.illud mediū ⁊.a.luminoſuʒ. Et arguit ꝙ.a.agit per totū mediū infinitū.ſ.ſi.b. ſit infi^m in cui⁹ aliquā ptē agit. ⁊ 2° ꝓbat ꝙ agit g^m infinitū luminis. ⁊ 3° ꝙ ad nulluʒ punctū aliquē g^m aget. ¶ Primū ſic ar'. Sit.b.mediuʒ infi^m in cui⁹ aliquā pteʒ agit. ꝓbat ꝙ.a.agit per totū: q2 ſi nō ſit.c.punct⁹ vbi ſua actio terminat: ⁊ ſit.d.punct⁹ medi⁹ inter.a.c.ar' tūc ſic. Ad pūcta remotiora eque intēſum g^m aget ſicut ad ꝓpingora ſi eſſet eque ꝓpiquū illis: ḡ nulla eſt cā: quare remiſſius agit ad puncta remotiora q̄ʒ ad ꝓpingora: niſi qa plus ab illis punctis remotiorib⁹ diſtat: ḡ ſicut pūcta ſunt remotiora: ita ad illa eſt g° luminis remiſſior act⁹. Cuʒ ḡ.c.per in du° plus ꝑcīſe diſtet ab.a.q̄ʒ.d. diſtat ab.a.ſeq̄t ꝙ in duplo remiſſior g° luīs agit ad.c.q̄ʒ ad.d.⁊ per ꝯñs.a.ad.c.ſufficit agē aliquē g^m: ⁊ ſi ſic ad punctū remotiorē pōt agere g^m aliquē remiſſiorē: ḡ ad.c.nō terminabit ſua actio: ⁊ ſic de ol alio pūcto eſt arguēduʒ: ergo nullibi terminabit ei⁹ actio: ḡ per totū ageret. pʒ ḡ primuʒ.

2 ¶ Scd̃m ſic ar'. Ad.d.punctū eſt aliq̄s g° act⁹ ⁊ ad pūcta ꝓpingora.a.agit g° intēſior pp ꝓpinquitatē maiorē: ergo ſicut pūcta ſunt ꝓpingora.a.q̄ʒ eſt.d.pūct⁹: ita ad illa agit gradus intēſior q̄ʒ ad.d.ſʒ infi^m ꝓpingor eſt aliq̄s pūct⁹.b. ipſi.a.q̄ʒ eſt.d.ḡ in ifi^m intēſior gradus agit ad aliquē punctū.b.q̄ʒ ad.d.⁊ ad.d.aliq̄s cert⁹ g° eſt act⁹: ḡ infi^m intēſus

3 gradus agit ad aliquē punctū qđ fuit ꝓbāduʒ. ¶ Tertiū ſic ar' vt ꝑus in ifi^m ꝓpingor eſt aliq̄s punct⁹.b.a.q̄ʒ eſt.d. ergo infi^m intēſior g° agit ad aliquē punctū.b.q̄ʒ ad.d. ſed ad nulluʒ punctū agit g° infinit⁹: q2 nullus g° intēſior q̄ʒ eſt gradus.a.luminoſi: ḡ īfinite remiſſius g° agit ad.d.qđ fuit intētuʒ. ¶ Ad idē ſic ar'. Agat.a.lumioſuʒ in.b.c. media: ⁊ ſit.b.in duplo dēſius.c.⁊ ſit.d.vnus punct⁹ in.b. ⁊.e. vn⁹ in c.eq̄ualr diſtāces ab.a.tūc.a.remiſſius lumē agit ad.d.pūctū q̄ʒ ad.e.cui⁹ cā eſt denſitas maior in.b.q̄ʒ in.e. ḡ ꝓportionabilr ſicut.b.eſt denſi⁹.c.ita remiſſior g° agit ad.d.punctū q̄ʒ ad.e.pōat ḡ ꝙ ad.d.agat ḡdus ſubduplus ad g^m.a. ⁊ ſeq̄t per arg^m factū ꝙ ad.e.aget gradus.a.⁊ ad oēm punctū iter.a.⁊.e.aget g° intēſior q̄ʒ ad.e.ḡ ad oēm citra.a.erit g° intenſior q̄ʒ eſt g°.a.⁊ ad punctū imediatū ipſi.a.nō erit gradus intenſior: ergo illud lumen nō erit vnifor' diſfor'.



c.mediū denſuʒ vt.2. b.mediū denſuʒ vt.4.

¶ Itē ſic agat.a.per.b.me^m vnifor' totā ſuā latitudinez a g° ſuo vſq3 ad nō g^m: ⁊ ſit.d.pūct⁹ medi⁹: ⁊ ſit.e. pūctus terminās ꝑmaʒ quartā.ſ. medi⁹ iter.a.d.tūc ſi la^{tu} ſit vnifor' diſfor' extēſa ad.d.pūctū erit g° medi⁹ iter g^m ipſi⁹.a. ⁊ nō g^m vt ꝯſtat. ſʒ ꝯñs eſt fſʒ: ḡ añs eſt fſʒ.ſ.ꝙ lumē vni' diſfor' eſt actū. falſitas ꝯñtis ar' ſic.d.pūct⁹ ē in du° remotior ab.a. q̄ʒ ē.e.pūct⁹. ḡ nō agit g° remiſſior ad.d.q̄ʒ ad.e.niſi pp diſtantiā. Se' ḡ ꝙ in du° remiſſior g° agit ad.d.q̄ʒ ad.e.⁊ ad e.agit g° remiſſior q̄ʒ eſt g°.a.ḡ agit ad.e.g° rēiſſior q̄ʒ ſubduplus ad g^m actū ab.a.ad pūctū ſibi ime^m: ſeq̄t ḡ lumen actū nō eē vni' diſfor'. ¶ Itē ſic maioret.a.in q̄ta^{te} ſtante ipſo in g° ⁊ ſe' ꝙ ad pūcta remo^{ra} veloci⁹ intēdet lumē q̄ʒ ad ꝓpingora: ex q̄ ad pūctū ime^m nō itēdit lumē illō: ħ āt meli⁹ ꝓbabit in poſterū. ḡ ſi me^m illō ꝯdēſet: ita ꝙ ad oēʒ pūctū ideʒ g° luīs ꝯſeruet: qui ad illū punctū eſt act⁹: ſeq̄t ꝙ ad puncta remotiora vel ad ptes remotiores velo' erit ꝯdēſatio q̄ʒ ad pūcta ꝓpigora. Et q2 ad pūctū ime^m agēti n° eſt itēſio luīs ad illū n° erit ꝯdēſatio: ⁊ p ꝯñs in fine erit lumē vni' diſfor' p me^m diſfor': ⁊ ſi ſic non ſufficiet agē lumē ſuū vni' diſfor' p me^m vnifor'. ꝯñia ꝓbabit inferius.

¶ Ad aliā ptē ar' ꝓbādo ꝙ lumioſuʒ agit lumē vni' diſfor' p me^m vnifor'. Sit.n.a.luminoſuʒ vnifor' ⁊.b.vnifor' me^m p qđ agat.a.tūc ad oēʒ pūctū agēt.a.g^m ſuū ſi ad punctū illū eēt applicatū ſic nūc facit ad pūctū ſibi imediatū: ex q̄ me^m eſt vnifor' p totū: ⁊ nūc nō ad oēʒ punctū agit g^m eq̄leʒ vt oēs loquētes de hac mā ꝯcedūt: imo expimētum idē docet. etiā pʒ p ħ ꝙ agēs bñ forti⁹ agit in ꝓpinquū q̄ʒ in remotū. Silr ſi ad oēʒ pūctū agēt g^m eq̄leʒ: ḡ ſi me^m illō eēt infi^m per totū illud me^m ageret vt deductū eſt: q2 ſi ad aliquē pūctū ſufficēt tātū g^m agē ad pūctū remotiorē ſufficeret aliquē g^m remiſſiorē agē. cā ḡ ieq̄lis actiōis eſt ipedimentū diuʒ rōne diſtātie maioris vni⁹ pūcti q̄ʒ alteri⁹. ḡ ſic diſtātia vni⁹ pūcti ab.a.eſt maior diſtātia alteri⁹ pūcti ab.a.ita ipedimētū ad pūctū magis diſtātē eſt maius q̄ʒ ad punctū ꝓpingorē. cū ḡ ſuū ipedimētū ad pūctū diſtātez nō ſit ſimplr ab actiōe ſʒ ab actiōe ſui g°: ſe' ꝙ ſic pūcta plus diſtāt ab agēte: ita p maiorē latu^{mē} ipediet.a.ad puncta remotiora ab actiōe ſui g° q̄ʒ ad ꝓpingora: ḡ totū lumē actū eſt vni' diſfor'. vbi.g.extre^m remoti⁹ ab agente indu° plus diſtat ab.a.q̄ʒ pūct⁹ medi⁹: ḡ ad illud extre^m p in du° plus diſtabit actio acta ab.a.q̄ʒ ad me^m ⁊ ad extre^m p totā latu^{mē}: ḡ ad me^m erit g° medi⁹ toti⁹ latu^{nis}: ⁊ ita erit de ol a° pte ꝙ ſic extre^m ei⁹ remotius ab.a. p indu° plus diſtabit ab.a.q̄ʒ medi⁹ pūct⁹ illi⁹: ita g° act⁹ ad extre^m p indu° plus diſtabit ab.a.q̄ʒ g° act⁹ ad pūctū me^m: ḡ totū eſt vnifor' diſfor'. ꝯñia pʒ per deſcriptionē vni' diſformis ꝙ.ſ.in oi pte eq̄li ſit eq̄lis latu^{do}: ⁊ ꝙ mediū eq̄lr excedat ab extre° intēſiori ſicut ideʒ mediū excedit extremū remiſſius: ſicut.n.eſt de oi vnifor' diſformi ꝙ ꝓpor' ſicut puncta ſunt remotiora

Ad pteʒ oppo^{tam}

ab extremo intenſiori:ita gradus corrñdens pũcto remo-
tiori per plus diſtabit a gradu corrñdente extremo inten-
ſiori:qꝛ ex quo totũ eſt vnifor difforˢ in oĩ pte eq̃lis eſt eq̃-
lis latiᵈ:ꝛ gradus corrñdẽtes punctis remotioribꝰ p plus
diſtãt ab extremo intenſiori ꝙ̃ corrñdentes punctis minꝰ
ab extremo eodem diſtãtibꝰ ſoluz p latitudinez inter illa
pũcta vel inter gradus illis pũctis corrñdẽtes:ḡ ſicut diſtã-
tia vniꝰ pũcti in vni difformi ab extreᵒ itẽſiori eſt maior:
ita defectꝰ latiᵈ ab extreᵒ intẽſiori eſt maior ad illuz pun
ctũ ꝙ̃ ad punctũ minꝰ diſtãtez:ita ꝙ iſta ↄ̃uertibilr ſe ha-
bent.ſ.cẽ vnifor difforˢ:ꝛ ꝓporˢ ſicut pũcta ſunt remotio-
ra ab extreᵒ intenſiori:ita illa per plus diſtãt intenſiue ab
extreᵒ ntẽſiori totiꝰ. Sꝫ ſic eſt vbicũqꝫ luioſuz vniforme
agit in meᵐ vniforˢ:igiẽ oẽ luioſuz agẽs in meᵐ vniforme
agit lumẽ vnifor difforˢ vnifor extẽſiue:qḋ fuit intentum.

Ad arm oppoᵐ ¶ Per iſtud arm rñdeẽ argumẽtis ꝑ factis ↄ̃ ↄ̃nem illam
negãdo illa ↄ̃ᵉ ꝑmo adducta.Et ad arm qñ ſic arẽ.Nõ ipe-
dië ab actiõe magis ad pũcta ꝓpingora ꝙ̃ ad remotiora
niſi pp diſtãtiã:ḡ ſicut pũcta ſunt remotiora:ita ad iſta lu-
men remiſſiꝰ agiẽ.negaẽ ↄ̃ña:ſed ſoluz ſeqẽ ꝙ ſicut pũcta
ab agẽte ſunt remotiora:ita gradus ad illa acti p maiorez
latiᵈ diſtãt a gradu agẽtis.ꝛ illud eſt cõcedendũ:qꝛ ipedi
mẽtũ p diſtãtiã nõ eſt ſimplr ab actiõe ſꝫ ab actiõe ſui gᵒ.
ꝛ ſic eſt negãda ↄ̃ña qñ ↄ̃cludiẽ ꝙ ſicut puncta ſunt ꝓpin-
quiora:ita lumẽ intẽſius agiẽ ad illa ꝙ̃ ad pũcta remotio-
ra.Sed bñ ſeqẽ ꝙ ſicut puncta ſunt ꝓpingora:ita ad illa
gradus acti p minꝰ diſtãt a gᵘ agẽtis:ꝛ illud eſt ↄ̃cedendũ
tanꝙ̃ verũ.ꝛ ſic ſoluũtur 1ᵃ pᵃ arᵐ.¶ Ad 2ᵐ argᵐ cõcediẽ
ꝙ ad.d.punctũ agiẽ gradus remiſſior ꝙ̃ ad.c. pp denſita-
tem maiorẽ.ꝛ negaẽ ↄ̃ña vlteriꝰ qñ cõcludiẽ:ḡ ſicut.b.eſt
denſius.c.ita gradus actus ad.d.eſt remiſſior gᵘ acto ad.c.
Sed ſeqẽ ꝙ ſicut.b.eſt denſius.c.ita gradus actꝰ ad.d.per
plus diſtat a gᵘ agẽtis ꝙ̃ gradus actꝰ ad.c.ꝛ illud eſt ↄ̃cedẽ
duz.Sit eniꝫ.b.in duplo dẽſius.c:ꝛ capio ptẽ inter.d.ꝛ pũ-
ctuz imediatũ agẽti:ꝛ ſeqẽ ꝙ inter iſta duo pũcta eſt tanta
latitudo ꝑciſe ſicut eſt inter punctũ.c.in duᵒ plus diſtãtez
ab extreᵒ intẽſiori ſuo:qꝛ a gᵒ.a.luioſi in duᵒ plus diſtat ꝙ̃
diſtet.c.ideo.d.in duᵒ plus diſtat a gᵒ.a.lumioſi ꝙ̃ diſtet.c.
¶ Ad 3ᵐ argᵐ cõcediẽ ꝙ ſi.a.maioraẽ ꝙ̃titatiue ſtãte ipo
in gradu:ꝙ ad puncta remotiora velociꝰ intẽdet lumẽ ꝙ̃
ad ꝓpingora.Et negaẽ ↄ̃ña qñ ↄ̃cludiẽ:ḡ ſi per ↄ̃dẽſationẽ
ipediret vꝫ ab intẽſione luminis,maior erit ↄ̃dẽſatio in ptẽ
remotã ꝙ̃ ꝓpinquã. Et ꝑmo argẽ formã argumẽti nõ va-
lere in alia mã vt ſint.a.b.duę poˢ:quaꝝ vtraqꝫ ſit vt 4ᵒʳ:
ꝛ.c.mediũ reſiſtens vt duo:ꝛ.d.mediũ reſiſtẽs vt vnum:ꝛ
creſcat.b.ↄ̃tinue in duᵒ velociꝰ ꝙ̃.a.tũc.b.velociꝰ creſcet ꝛ
velociꝰ intẽdet motũ ſuũ in.d.ꝙ̃.a.in.c.ꝛ tñ ad hoc ꝙ neu
truz illoꝝ intẽdat nõ reqriẽ.d.creſcere velocius ꝙ̃.c. qꝛ ſi
equeᶜ inciperet.d.creſcere ſicut.c.in duplo velociꝰ ꝓportio-
nabilr inciperet.d.creſcere ꝙ̃.c.ex quo eſt ſubduplus:ḡ.c.
creſcet in duplo tardiꝰ ꝙ̃.a.ſi motꝰ eius ↄ̃ſeruabiẽ:ꝛ.b.in
duplo velociꝰ creſcet ꝙ̃.a.ḡ cũ.c.in duplo tardius creſcet
ꝙ̃.a.motꝰ eius ↄ̃ſeruabiẽ:ꝛ.c.in quadruplo tardiꝰ.b.ſi mo-
tus elꝰ ↄ̃ſeruabiẽ:ꝛ.b.in duᵒ velociꝰ creſcet ꝙ̃.a.ḡ.d.in du-
plo tardius ꝑciſe creſcet ꝙ̃.a.ↄ̃ña ſatis pꝫ:ḡ ad hoc ꝙ motꝰ
a.cũ.c.ꝛ motꝰ.b.cũ.d.ↄ̃ſeruabunẽ,reqriẽ.c.d.equeᶜ ꝑciſe
creſcere.ideo nõ valet argᵐ de forma:nec valet illud argᵐ
de mã:qꝛ ſigneẽ illud mediũ ꝛ deẽ pars remota:tunc ſi in
pte ꝓpinquiori fiat ↄ̃denſatio:ꝛ nõ in remotiori:adhuc in
illa pte remotiori erit remiſſio luminis:qꝛ intantũ poſſꝫ iſta
ps ꝓpingor ↄ̃dẽſari ꝙ vltra illaz ptem nõ ꝓcederet actio
luminoſi manẽte iſta eq̃lis ꝙ̃titatis vt ↄ̃ſtat:ideo ꝙ ita den-
ſa põt iſta ps fieri ꝙ per illaz ptem nõ ſufficiet.a.lumino-
ſum agere.Sed ſi lumẽ actũ in pte iſta ꝓpinquiori termi
neẽ ad nõ gᵐ in pte remotiori nõ erit aliqḋ lumẽ actuz:qꝛ
nõ ageẽ lumẽ in partẽ remotã niſi per ptem interceptam:
ergo cõdenſatio ptis ꝓpinquioris facit ad luminis remiſſio-
nem in parte remotiori ꝛ nõ econtra:ꝛ cõdenſatio ꝓpria
illius ptis remiſſioris ẽt iuuat ad remiſſionẽ ſui luis vt pꝫ:
ideo cũ eq̃li ↄ̃denſatiõe ſtat velociꝰ lumẽ remitti in parte
remota ꝙ̃ in ꝓpinqua:ideo lꝫ per maiorez latiᵈ erit iper-
dimentũ intenſionis luminis in pte remota ꝙ̃ ꝓpinqua per
ↄ̃denſationẽ,nõ ſequiẽ ꝙ velocior erit ↄ̃denſatio in parte
remota ꝙ̃ ꝓpinqua:ideo nõ vꝫ argᵐ. ¶ Pro planiori ſo- 13ᵒ
lutione argumẽtoꝝ in hac mã notãduz eſt hec ↄ̃clo.Si lu-
minoſuz aliqḋ agẽs in meᵐ vniforˢ nõ varieẽ:cuius pars
aliq̃ imeᵈ agẽti fiat denſior nõ mutata quãtitate ſicut opꝫ
imaginari in 1ᵃ mã ad oẽm punctuz ptis reſidue remotio-
ris ab agẽte per iſtã ↄ̃denſationẽ equeueᶜ remitteẽ lumen
ſicut ad extremũ illiꝰ ptis ↄ̃denſate qḋ eſt remotius a lu-
minoſo.¶ Ad qḋ ꝓbãduz ꝑmo arguiẽ:ꝙ vbicũqꝫ lumi- 14ᵒ
noſum agit in mediũ ad oẽz punctũ medietatis remotio-
ris ↄ̃ſeruaẽ idez gradus luis:ſicut ſi ad illum punctũ eſſet
luminoſuz vniforme gᵘ iſti puncto corrñdenti ꝛ equalis
quãtitatis cũ luminoſo agẽte.vbi grã.luminoſuz.a.agat gᵐ
vt octo per.b.mediũ:tũc ad punctũ meᵐ erit gᵘ vt q̃tuor.
ideo in iſta medietate idez gradus luminis ↄ̃ſeruabiẽ:ſicut
ſi luminoſuz vt q̃tuor equalis ꝙ̃titatis cuz ꝑmo luminoſo
agẽte ad illũ punctũ ponereẽ:tale.n.iuxta ꝑdicta foret in
duplo minoris poˢ ꝙ̃ pᵐ luminoſuz:iḋ ageret totã ſuã lati-
tudinẽ vniforˢ per ſubiectũ in duplo minus ꝙ̃.a.ſuã:ideo
ſoluz ageret per medietatẽ huiꝰ mediꝫ illaz latitudinẽ.ſ.a
q̃tuor vſqꝫ ad nõ gᵐ:ꝛ ita facit pᵐ lumioſuz. ¶ Pro vlte-
riori ꝓbatiõe huiꝰ ſic arẽ. Sit.c.medietas.b.mediꝫ ꝓpin-
quior a luminoſo agẽti ꝛ ↄ̃denſeẽ medietas ꝓpinquior.c.
ſtante alia.Et arẽ ꝙ medietate remotiori ab.a. ↄ̃ſeruabiẽ
eq̃le lumẽ ſicut ↄ̃ſeruareẽ a lumioſo extrẽe ↄ̃tinue equalis
quãtitatis cũ luminoſo dato ꝛ ſub gradibꝰ corrñſuris illi
puncto medio.c.qꝛ ſi nõ deẽ id inſtãs in quo erit ↄ̃denſa-
tio cõpleta:ꝛ ponaẽ ꝙ ab iſto inſtãti rareſiat medietas.c.
que ꝑmo ↄ̃denſabaẽ vſquequo totũ fuerit vniforˢ rarus:ꝛ
remittaẽ.a.luminoſuz:ita ꝙ ad mediũ punctũ.c.cõſerueẽ
cõtinue idẽ gradus luminis qui ibi in fine ↄ̃denſatiõis erit
tũc ex quo ad meᵐ punctuz nulla erit remiſſio luminis rõne
remiſſionis luminoſi ꝛ rarefactiõis mediꝫ:ḡ ad nullũ pun
ctũ vltra meᵐ erit remiſſio.ↄ̃ña ꝓbabiẽ poſt. vbi argueẽ
ꝙ qñ lumioſuz remitteẽ in gradu ad oẽm pũctũ equeueᶜ
remitteẽ lumẽ ſicut ad aliquẽ:ꝛ in fine erit in medietate re-
motiori eq̃le lumẽ ſicut ſi ↄ̃ſeruareẽ a luminoſo equali in
quãtitate cũ.a.ꝛ ſub gradu tũc corrñſuro illi medio pũcto
c.ex quo totũ mediũ erit vniforˢ vt priꝰ deductũ eſt in exẽ-
plo:eo ꝙ ſicut ille gradus eſt remiſſior extremo intenſiori
vel gᵘ corrñdente.a.lumioſo:ita latitudo ab 1ᵒ gradu vſqꝫ
ad nõ gᵐ eſt minor:ꝛ illa ꝙ̃titas per quã etiã extendiẽ eſt
minor.Sed ſi foret lumioſuz vniforˢ iſto gᵘ ſicut ille gra-
dus eſt remiſſior gᵒ.a.ita illḋ luminoſuz eſſet minoris poˢ
ꝙ̃.a.ḡ in ea ꝓportiõe per minorẽ diſtantiã ageret ſuã lati-
tudinẽ:ḡ ageret ſuã latitudinẽ per ptez eq̃lez ſicut iſta lati
tudo a gradu illo vſqꝫ ad nõ gᵐ agiẽ per.a. igiẽ id eſt vlr
verũ vbi eſt mediũ vniforme ꝛ in caſu ꝑdicto in 1ᵒ medio
difformi.ſ.c.per medietatẽ remotiorẽ ab.a.erit ↄ̃tinue tan
tus gradus luis ſicut erit ibi in fine cõpleta 1ᵉ rarefactiõe:
ergo ↄ̃tinue ↄ̃ſeruabiẽ ibi eq̃lis gradus luminis ſicut ſi ↄ̃ſer-
uareẽ a lumioſo eq̃lis ꝙ̃titatis cũ.a. vniformi gradu pun-
cto medio.c.ↄ̃tinue corrñſuro.¶ Ex hac deduciẽ ↄ̃clo 13ᵃ
quia ſit iſte punctꝰ.d.terminãs totã iſtam ptez cõdenſatã.
Et arguiẽ ꝙ ad oẽm punctuz vltra.d. equeueᶜ remittetur
lumen ſicut ad.d.qꝛ ad.d.punctũ idez gradus luminis ꝛ ad
oẽm vltra ↄ̃ſeruabiẽ:ſicut ↄ̃ſeruareẽ a luminoſo equali.a.
quãtitatiue ſub gradu.d.puncto continue corrñſuro.Sꝫ ſi

poneret ꝙ hꝫ luminoſuꝫ ſtans in q̄titate remitteret: ita ꝙ cōtinue maneret vniforˢ gˢ luminis correſpondēs ſuo .d. puncto ad oēm punctū vltra .d. equeueˡ remitteret lumē ſicut ad .d. vt poſtea pbabit .ſ. in ꝯne 18ª: ḡ nūc ad oēm punctū vltra .d. equeˡ remittet lumē ſicut ad .d. ❡ Ad idē ſic. Agat .a. luminoſuꝫ per .c. meᵐ totā latiᵗᵘᵈⁱⁿᵉᵐ ab octo vſqꝫ ad q̄tuor: ⁊ cōdenſet medietas .c. ppinquior ipſi .a. manēs vniformis denſitatis quouſqꝫ fuerit in duplo denſior q̄ꝫ nūc eſt: ⁊ nō cōdēſet alia medietas .c. nec variet p ꝯdēſationē nec aliūde niſi ſoluꝫ in lumie rōne ꝯdēſationis alterˀ medietatis. Et ſeq̄t ex quo medietas .c. in fine erit in duplo denſior q̄ꝫ nūc eſt ꝙ ad punctū quēlꝫ ciˀ gradus luminis p in duplo plus diſtabit ab .a. q̄ꝫ in pnᵒ. Cū ḡ ad pūctū meᵐ .c. ſit nˢ gradus vt ſex: ſeq̄t ꝙ in fine erit gradus vt q̄tuor: ḡ ad illuꝫ punctū erit tūc binariˀ deꝑditˀ: tūc arguit ꝙ ad extremū remotiˀ .c. ab .a. erit ēt binarius deꝑditˀ: ⁊ per ꝯñs ad mediū .c. ⁊ ad extremū equalis latitudo deꝑdet: ⁊ ſi ſic cū tota medietas .c. remotior manebit vniformiter difformis: q: iſta ps eſt vniformis denſitatis: ſeq̄t ꝙ ad oēm punctū illˀ medietatis remotioris equeuelociter remitteret lumē ſicut ad extrema: quia vniforˡ difforme non manet vniforˡ difforme deꝑdita latitudie per ipm niſi deꝑdat gradus vniformis vel latitudo vniforˡ difformis: vt argutū eſt vbi tangit de inductiōe gradus ſūmi. Jam arguit añs .vꝫ. ꝙ fcā ꝯdenſatione erit ad extremuꝫ .c. gradus vt 2ᵒ: q: ponat ꝙ in alia hora ꝯdēſet medietas remotior .c. ad denſitatē alterˀ medietatis: ⁊ ſeq̄t ꝙ extremū in fine p in duplo plus diſtabit a gradu .a. luminoſi q̄ꝫ nūc diſtet añ oēm ꝯdēſationem: q: tūc erit .c. in duplo denſius q̄ꝫ nūc eſt per totū. ḡ cuꝫ ad id extremū nūc ſit ḡdus vt q̄tuor: ſeq̄t ꝙ ibi tūc erit nō gradus: ⁊ ad ciˀ meᵐ pūctū erit gradus vt q̄tuor: ḡ medietas remotior .c. tūc remittet mediāte latitudie vniforˡ difformi ad nō gradus ad punctū meᵐ .c. terminata. Et ꝙ ad extremū remotius deꝑdet binariˀ arguit: q: tunc erit tᵃ medietas in duplo denſior q̄ꝫ ante ꝯdēſationē ciˀ: ⁊ per iſtam cōdenſationē ſolum remittet lumē: ḡ extremū illˀ remiſſius p in duplo maiorē latitudinē diſtabit ab extremo intenſiori eiuſdē medietatis q̄ꝫ ante iſtā ꝯdēſationē ⁊ in fine diſtabit per q̄tuor: ḡ ante ꝯdenſationē diſtabit p 2ᵒ: ⁊ per ꝯñs binariˀ deꝑdet. ꝯña pꝫ: q: vbicūqꝫ in medio vniforˡ lumē per ꝯdenſationē vniformē remittet quilꝫ punctˀ totius ab extremo itenſiori p maiorē latitudinē intēſiue diſtabit ſicut fiet denſiˀ ⁊c̄.

15ª ꝯ ❡ Nūc arˡ vna ꝯclo pracīa .vꝫ. ſi mediū ſit difforme in quo luminoſuꝫ agit lumen ſuū vniˡ difforme in nullo medio vniformi pōt agere illud lumen vniˡ diffor. q: ſi ſic ſit illud luminoſuꝫ .a. ⁊ .b. mediū difforˢ: ⁊ .c. meᵐ vniforˢ: eq̄le .b. in quoꝝ vtroqꝫ agat .a. latitudineꝫ vniˡ difformē a gᵘ ſuo vſqꝫ ad nō gᵐ vniforˢ. caſus pꝫ dabita poſitate huiˀ ꝙ in meᵐ difforˢ agat lumē vniforˡ: q: ſi .c. ſit minˀ q̄ꝫ .b. ponat ꝙ .c. rareſiat quouſqꝫ fuerit eq̄le .b. ⁊ ſicut ideꝫ ſit rariˀ: ita fiat maioris q̄titatis. Et ſeq̄t ꝙ ſicut in pnᵒ agit totā latiᵗᵘᵈⁱⁿᵉᵐ a gᵘ ſuo vſqꝫ ad nō gᵐ p .c. ita in fine faciet. Maneat enī .c. vniforˢ in raritate: q: pporˡ ſicut .c. fiet rariˀ: ita .a. p maiorē q̄titatē ſufficiet agere: ideo tūc in fine ſufficiet agere per .c. meᵐ totā illam latitudinē: ⁊ tunc erit .c. eq̄lis q̄titatis cū .b. ſi .c. in pnᵒ ſit maius q̄ꝫ .b. fiat per cōdenſationē vniforꝫ quo ad ſubm eq̄le .b. ita ꝙ ſicut fiet denſius: ita fiat minus in q̄titate: ⁊ ſeq̄t adhuc ꝙ ſic in pnᵒ agit totam latitudinē a gᵘ ſuo vſqꝫ ad nō gᵐ vniforˡ: ita in fine faciet ſicut pus argutū eſt: eo ꝙ ſicut .c. fiet denſius: ita fiet minoris q̄titatis. Seq̄t ḡ ꝙ ſi per .b. mediū difforme pōt agere totā ſuā latitudinē vniˡ: ⁊ per mediū aliqḋ vniforme: ḡ per mediū vniforme illi difformi eq̄le pōt agere totā illaꝫ latitudinē vniforˡ: ergo hꝫ caſus. Tūc ſic arguit. Uel .c. eſt vniforme gradu intenſiſſimo iſtius latitudinis denſitatis vel gradu remiſſiſſimo vel aliquo gradu intrinſeco. Si gᵘ intēſiſſimo: ḡ eſt magis denſuꝫ q̄ꝫ id difforme: ⁊ eq̄le ſibi q̄titatiue: ḡ nō aget in iſto p eq̄leꝫ diſtātiā ḡduꝫ eq̄leꝫ ſicut in iſto difformi. Jdē eſt arᵐ ſi ponat ꝙ ſit vniforme gᵘ remiſſiſſimo iſtiˀ latitudis dēſitatis. Si vᵒ ponat ꝙ .c. ſit vniforˢ aliq̄ gᵘ intrīſeco iſtiˀ latiᵗᵘᵈⁱⁿⁱˢ dēſitatis q̄ .b. eſt difforme: vel ḡ eſt .b. ſm ſe totū difforˢ: vel aliq̄ ps eius eſt vniformis. Si ſm ſe totū ſit difforme: ḡ eſt aliq̄ ps eiˀ terminata ad extreᵐ imediatū maioris vel minoris denſitatis q̄ꝫ eſt dēſitas .c. Et ſi ſic nō ad eq̄lē diſtātiā agent in .b. .c. gradus eq̄les: vel nō faltē ad oia puncta aget eq̄lis gradus q̄ .ſ. puncta .b. .c. correſpōdent. Uel ſic. Det pūctˀ in .b. vbi eſt eq̄lis gradus denſitatis ſicut eſt in .c. tūc ad illa pūcta aget gradus lūis eque itēſus. Sꝫ cū .b. ſit per totū difforˢ in pte terminata ad iſtū punctū erit denſitas maior vl' minor denſitate .c. Et ſic ad puncta eq̄lr diſtātia ab illis punctis nō aget gradus lūis eq̄lis. ꝯña p ꝯnem 14ᵃᵐ ſatis pꝫ. Si ḡ aliq̄ ps .b. ſit vniformis vel erit ps terminata ad extremū .b. imediatū .a. vel non. Si ſic. vel ḡ iſta ps eſt vniforˢ denſa gᵘ quo .c. eſt denſuꝫ vl' gᵘ intēſiori vel remiſſiori. Si intēſiori vel remiſſiori ſeq̄t ꝙ nō ad puncta equalr diſtātia aget gᵘ eq̄lis. Si vᵒ eq̄li: det pars vel punctˀ vbi incipit eē difforme: ⁊ ſeq̄t ꝙ ad iſtū pūctū nectio terminabit ps magis denſa vl' minˀ denſa q̄ꝫ ſit .c. denſuꝫ: ḡ ad omnia equalr diſtātia ab illis punctis correſpōdētibˀ agent gradus ineq̄les: ⁊ h ſeq̄t ſiue ps iſta reſidua fuerit vniformis ſiue difformis. Si ḡ nulla ps terminata ad .a. ſit vniformis fiat arᵐ pcedēs ꝙ ad id extremū terminabit ps magis vl' minus denſa q̄ꝫ eſt .c. ḡ ſequit ꝙ nō ad oia pūcta correſpōdentia iſtoꝝ .b. .c. gradus eq̄les agent. ſeq̄t ḡ ꝯ. ❡ Contra ꝯnem 14ᵃᵐ ſic obiicit. Sit .a. luminoſuꝫ agēs in .b. meᵐ vniforˢ: cuius .c. ſit medietas ppinquior ipſi .a. ⁊ ꝯdēſet medietas .c. ppinquior .a. ad duᵐ: ⁊ ſit in pnᵒ latitudo acta per .c. vniforˢ difformis ab octo vſqꝫ ad q̄tuor: cuiˀ medietas ppinquior etiā in alio tpe poſt rareſiat ad raritatē pbabitā: ⁊ ſit nunc id inſtās gr̄a arⁿ in quo ꝯdēſatio erit cōpleta: ⁊ ſit .b. luminoſuꝫ eq̄lis q̄titatis cū .a. ⁊ ſub gᵘ vt q̄tuor: qui eſt ad punctū mediū .c. vt pꝫ. Et remittat .a. in luie ipſo ſtāte in q̄titᵉ: ita ꝙ ad punctū meᵐ .c. ꝯtinue ſit ideꝫ gradus lūis vt 4ᵒʳ: ⁊ maneat .b. ꝯtinue vniforˢ tali gᵘ q ꝯtiˢ correſpōdebit puncto medio .c. ⁊ ſit .d. luīoſuꝫ oīo ſiīe .a. ⁊ ſit .f. ſiīe .b. luīoſo: ⁊ ſit .e. mediū ꝯſilr diſpoſitū cū .c. fcā iſta ꝯdenſatione. Et ſeq̄t ꝙ .d. luīoſum ꝯſilr agit in .e. ſicut .a. in .c. q: luīoſa ſunt ꝯſilia ⁊ media. rareſiat medietas .e. ppinquior .d. ꝯſilr ſicut poſitus eſt de .c. ⁊ ſeq̄t ꝙ ſi .d. ſtaret ꝯtinue ad oēm punctū .e. intēderet lumē: ⁊ velociˀ in pte remota q̄ꝫ ppinq̄: q: iſta medietas .e. ppinquior .d. ſemp eſſet vniˡ denſa ⁊ vniforˡ difforˢ illuminata: ⁊ ad extreᵐ imediatū .d. nulla latiᵗᵘᵈᵒ acq̄reretur. Siſr ſi .d. minoret in q̄titate ſtante gradu ad pūcta remotiora velociˀ remitteret lumē q̄ꝫ ad pūcta ppinquiora: q: ad punctū imediatū ſibi nullum lumē deꝑderet. ponat ḡ .d. minorari ſm q̄titatē: ita ꝙ ad oēꝫ punctū .e. idē gradus luminis ꝯſeruet: ⁊ maneat .f. ꝯtiˢ ꝯſilr .b. ſicut nūc ſunt in gradu fcā ꝯdenſatiōe: ⁊ maneat .f. ꝯtinue eq̄lis q̄titatis cuꝫ .d. quo poſito arˡ pro fine in quo tota ꝯdēſatio cū rarefactiōe cōplebit: tūc erūt .e. .c. oīo ſiīa in dēſitate. Capiant ḡ puncta media eoꝝ: tūc ad illa pūcta erit gᵘ lūis eq̄lis: ⁊ ad oia puncta vlteriora correſpōdētia: ⁊ tūc erit .b. equale .a. ⁊ ſub gᵘ vt quatuor: ſic ponit in caſu. Et tūc ad oēꝫ punctū .e. vltra mediū erit lumē eq̄le ſicut ſi ꝯſeruaret a luminoſo eq̄li .d. q̄titatiue: ⁊ ſub eodē gᵘ q tūc erit ad punctū mediū .ſ. gᵘ vt quatuor: ⁊ illud erit .f. ḡ ad oēm punctū .e. vltra mediū ꝯſeruabit idē gᵘ luminis vl' aget ſicut aget ab .f. ⁊ .f. tūc erit minˀ .b. q: .f. tunc erit eq̄le .d. ⁊ erit ſub eodeꝫ gradu quo .b. ergo cū iſta media tūc erant eq̄lia: ſeq̄t ꝙ .b. ad equalem

diſtantiã aget gm inteſiorem ꝙ̃.f.ꝗ ad oẽm punctũ.c.vltra
mediũ nũc aget gradus lũis inteſior ꝙ̃ ſi ageret ab.f.ergo
ꝯclo ſſa. ¶ Pro iſto vi admittẽdo caſum de.a.ꝛ negaꝛ de
16ª ɔ̄ d.cui9 cã ponet̃ ꝓbatis ꝑmo qbuſdaꝫ ɔ̄nib9. ¶ Quaꝝ pª
eſt hec. Ubicũqꝫ lũioſuꝫ agẽs in meũ vniforꝛ minorat̃ in
q̃titate vel maiorat̃ ſtãte gu ꝛ nõ variato meo cũ alijs pa
rib9 ꝓporꝛ ſicut pũcta ſunt lũioſo ꝓpingora:ita ad iſta tar
17ª ɔ̄ dius itẽdet̃ ſeu remittet̃ lumẽ ꝙ̃ ad remotiora. ¶ Scḋa
eſt hec. Ubicũqꝫ lũioſuꝫ agẽs in meũ vniforꝛ maneat nõ
mutatũ oĩo ꝙ meũ rareſiat vł ꝯdẽſabit̃ vniforꝛ ꝑciſe quo
ad ſubm:ita ꝙ ꝯtĩ maneat vniforꝛ ꝓporꝛ ſicut pũcta ſunt
lũioſo ꝓpingora:ita ad illa tardior erit intẽſio vel remiſ
18ª ɔ̄ ſio lũis. ¶ Tertia ẽ hec. Ubicũqꝫ lũioſuꝫ agẽs in mediuꝫ
vniforꝛ nõ mutatũ intẽdit̃ vel remittit̃ in gu manẽte eius
quãtitate ad oẽꝫ punctũ iſti9 medij eque intendet̃ vel re
mittet̃ lumẽ ſicut ad aliquẽ. ¶ Prima ſic arꝛ. Sit.a.id lu
minoſuꝫ:ꝛ.b.meũ vniforꝛ:ꝛ maioret̃.a.in q̃titate oibus alijs
mutationib9 in ipſo:ꝛ in meo deductis:ꝛ capiat̃ iſta ps.b.
per quã eſt lumẽ actũ:ꝛ arꝛ ſic. Ad oẽm punctũ intrinſecũ
intẽdit̃ lumẽ:qꝛ agit̃ lumẽ ſuũ vniꝛ diſforꝛ per maiorẽ di
ſtantiã:ꝛ ad pũctũ imediatũ nulluꝫ lumẽ aget̃:qꝛ ibi ſemꝑ
terminabit̃ ad gm ſuũ:ꝛ totũ nũc eſt vniꝛ diſforꝛ ꝛ cõtinue
erit:ꝗ latitudo iſta lumis iſti pti acqſita erit vniꝛ diſformis
ad nõ gm terminata verſus.a.ꝯña ſic pꝫ. Si vniꝛ diſforꝛ ma
neat vniꝛ diſforme per intẽſionẽ:vel ſibi addetur latitudo
vniꝛ diſformis:vel gradus vniformis:vt pꝫ vbi tangit̃ de
īductiõe gu ſummi:ſꝫ iſti pti nõ addet̃ gradus vniformis
ſed latitudo terminata ad nõ gm v̾ſus.a. ꝗ latitudo iſta acqſita
erit vniꝛ diſformis terminata ad nõ gm verſus.a.ꝗ ſicut pũ
cta ſunt ꝓpingora ipſi.a. ita illis gradus remiſſiores lũis
acqrent̃.ꝯña pꝫ:qꝛ qñcũqꝫ eſt aliqḋ vniꝛ diſforꝛ ad nõ gm
terminatũ:ſicut puncta ſunt illi extremo vbi terminat̃ ad
nõ gm ꝓpingora:ita eis gradus remiſſiores correſpõdent. Et
ex ꝯñte ſeqt̃ ꝙ ſicut pũcta ſũt extreo imediato.a. ꝓpingora:
ita ad illa tardior erit intẽſio lũis: ſicut.n.latitudo acqſita
eſt minor:ita intẽſio erit tardior. Et ꝯſilr oĩno ſicut arguit̃
de intẽſione lumis qñ lumioſuꝫ maiorat̃:ita eſt arguẽduꝫ
de remiſſione lumis qñ lumioſuꝫ minorat̃:q.ſ. ſicut puncta
ſunt extremo imediato agẽti ꝓpingora:ſic ad iſta tardior
erit remiſſio lũis.pꝫ ꝗ pª iſtaꝝ ɔ̄nuꝫ. ¶ Pro 2ª ſic arꝛ. Sit
a.lumioſuꝫ vt prius ꝛ nõ variet̃.a.ꝛ ſit.b.meũ illud vniforꝛ
qḋ rareſiat manẽs vniforꝛ:tũc ad oẽm punctũ intrinſecuꝫ
intẽdat̃ lumẽ:ꝛ nullũ lumẽ acqret̃ extreo imediato agẽti:
ꝛ illud lumen eſt vniꝛ diſforme ꝛ ꝯtinue manebit vniforꝛ
diſforꝛ:ꝗ latitudo lũis acqſita ad nõ gm terminata ꝯtĩ erit vniꝛ
diſformis terminata ad nõ gm v̾ſus.a. ꝗ ſicut pũcta ſunt ꝓ
pingora.a.ita ad illa minor latitudo lũis acqret̃ : ꝛ p ꝯñs in ea
ꝓporꝛ tardi9 intẽdet̃ lumẽ ad puncta ꝓpingora agẽti ꝙ̃
ad remotiora:ꝛ ſic arꝛ de intẽſione lũis qñ meũ rareſit:ita
arguẽduꝫ eſt de remiſſione qñ meũ ꝯdẽſat̃.ꝗ ſequit̃ ꝯclo.
¶ Tertia ſic arꝛ. Sit.a.illud lũioſuꝫ qḋ intẽdat̃ in gradu
agẽs in.b.meũ vniforꝛ nõ variatũ:ꝛ argꝛ ſic propor ſicut.a.
fiet inteſi9:ita fiet maioris po:ꝛ ſicut fiet maioris potẽtie:ita
aget p maiorẽ diſtãtiã. Et ꝓporꝛ ſicut.a.fiet intẽſius:ita latitudo
inter ipm ꝛ nõ gm erit maior:ꝗ ꝓporꝛ ſicut aget per maioreꝫ
diſtantiã ſic latitudo acta terminata ad nõ gm erit maior:ergo in
pte p quã nũc eſt actio ꝯtĩ eqlis latitudo extẽdet̃ loquẽdo
de eqlitate latitudinũ qñ extrea inteſiora eqlr excedũt ex
trema remiſſiora.ꝯña ſatis pꝫ:vt ſi latitudo acta foret dupla
ꝛ diſtãtia ẽt p quã agit̃ foret du in pte prehabita maneret
eqlis latitudo.ſ.medietas toti9 latitudinis q̃ nũc eẽt dita: ꝛ argꝛ
ex ꝯñte in pte p quã eſt actio manebit ꝯtĩ eqlis latitudo:
ꝗ ad extre illi9 ptis eqlis latitudo acqret̃:ꝗ ad extre illi9
ptis erit eqlis inteſio:ꝛ per ꝯñs ad oĩa alia pũcta intriſeca
manebit eqlis intẽſio lũis:qꝛ nũꝙ̃ vniforꝛ diſforꝛ manebit
vniꝛ diſforꝛ eqli latitudine:niſi intendat̃ vno gu vniformi vt ꝓ
bat̃ in ɔ̄ne 3ª ꝛ alijs ſequẽtib9 de īductiõe gu ſummi: ſicut
arguitũ eſt de pte p quã eſt actio:ꝛ ita de oĩ pte ẽ arguẽdũ.
¶ Per hs facilr ꝓbat̃ qũo caſus eſt ipoſſibilis poſit9 ɔ̄ 14ª
ɔ̄neꝫ de.d.ꝛ poſſibilis de.a.qꝛ p rarefactiõeꝫ.c. in caſu iſto ſm
medietatẽ ꝓpingorẽ.a.ſi.a. ſtaret ad oẽꝫ pũctũ intẽderet̃
lumẽ vltra meũ punctũ ſicut ad pũctũ meũ. Et ſi.a.remitte
ret̃ ſtãte iſto meo ad oẽꝫ punctũ vltra mediũ eque remit
teret̃ lumẽ ſicut ad meũ:ſicut.n.fieret remiſſi9:ita ps p quaꝫ
ageret vltra meũ fieret minor p ꝓbationẽ ꝯſileꝫ ꝓbatiõi
ɔ̄nis.18.ꝗ ſi fiat rarefactio in medietate.c. ꝓpingori.a.ꝛ re
miſſio lũis.a.ita ꝙ ad pũctũ meũ.c.nõ remittat̃ lumẽ nec
intẽdat̃ ad nullũ pũctũ vltra meũ intẽdet̃ nec remittetur
lumẽ:ideo de.a.eſt caſus poſſibilis:de.d.tñ nõ eſt poſſibilis: qꝛ ad
pũcta vltra meũ.c.p minorationeꝫ q̃titatis.d.minoraretur
veloci9 lumẽ ꝙ̃ ad pũctũ meũ iuxta ɔ̄neꝫ 16am.ꝛ p rarefa
ctionẽ medij ad oẽm punctũ vltra punctũ meũ.c.eque
intẽdet̃ lumẽ ſicut ad meũ punctũ p ɔ̄neꝫ 13am. Si ꝗ p mi
norationẽ.d.ꝛ rarefactionẽ medietatis.c. ꝓpingoris.d.ad
punctũ.c.meũ ſtabit ideꝫ gu:ꝛ ad oẽm pũctũ vltra mediũ
remitteret̃ lumẽ:ꝛ iḋ nõ ſtat ꝙ ad oẽm punctũ.c. idem gu
lũis ꝯſeruet̃:ſꝫ illud ſtat de oĩ pũcto citra meũ:imo ſequit̃
ꝙ ad oẽꝫ pũctũ citra idẽ gdus lũis ꝯſeruabit̃ cũ caſu po
ſito. Si.n.ad punctũ meũ ideꝫ gradus lũis ꝯſeruabit̃:igit̃
nõ rarefacto medio per minorationẽ luminoſi eque dep
det̃ lumẽ ad punctũ mediũ ſicut acqreret̃ rarefacto me
dio ſtante lumioſo.ꝯña ſatis tenet:qꝛ tantũ faciet minora
tio luminoſi ad remiſſioneꝫ lũis ſicut rarefactio medij ad
lumis intenſionẽ. Sed ꝓporꝛ ſicut pũcta ſunt extremo ꝓ
pinquiora:qḋ extremũ eſt imediatũ agenti:ita min9 faciet
rarefactio ad intenſionẽ lumis:ꝛ etiã ita faciet minoratio
quãtitatis min9 ad lumis remiſſionẽ:ergo ſicut ad punctũ
mediuꝫ equalr faciet rarefactio medij ꝛ minoratio lumi
noſi:ita ad oĩa puncta citra mediuꝫ equalr faciet. Añs pꝫ
per.16.ꝛ.18.ꝯcloñes.ꝛ ex ꝯñte ſequit̃ ꝙ ad oẽꝫ punctũ ci
19ª ɔ̄ tra mediũ ideꝫ gradus lumis ꝯſeruabit̃. ¶ Seqt̃ ex pre
miſſis iſta ꝯclo ꝙ vbicũqꝫ luminoſum agit in mediũ vni
forme cui9 vna pars rareſit imediata agẽti ꝛ tota pars re
ſidua manet ꝛ luminoſum minorat̃ in quãtitate : ita ꝙ ad
extremũ ptis rarefacte ideꝫ gradus lumis ꝯſeruabitur ad
oẽm punctũ citra taleꝫ ꝯtinue ideꝫ gradus lumis ꝯſerua
bit̃ ꝛ ad oẽm punctũ vltra illuꝫ punctũ remittet̃ lumẽ ce
teris parib9. Hec ſequit̃:quia illa rarefactio equalr faciet
ad intenſionẽ lumis ad extremũ illius ptis rarefacte ꝛ ad
oẽm punctũ vltra:ꝛ ad puncta remotiora plus faciet mi
noratio quãtitatis luminoſi ꝙ̃ ad ꝓpinquiora: ꝗ ad pũcta
remotiora remittet̃ lumen ꝛ ad oẽm citra ſtabit lumẽ vt
20ª ɔ̄ arguitũ eſt in rõne ꝓxima:ergo ſequit̃ ꝯclo. ¶ Sequit̃ ẽt
ꝙ ſi luminoſuꝫ agat in mediũ vniforme cui9 vna pars ra
reſit ꝛ luminoſuꝫ remittit̃:ita ꝙ ad extremũ illius partis
cõſeruet̃ ideꝫ gradus lumis ipſo luminoſo ſtante in q̃tita
te ad quecũqꝫ pũcta vltra illud ꝯſeruabit̃ ideꝫ gradus ſicut
in pũctu eſt ad illa ꝛ ad oĩa puncta citra remittet̃ lumẽ. Hec
ſic pꝫ. Terminet.b.punct9 ptẽ rarefactã in extremo remo
tiori ab.a.ꝛ remittat̃.a.luminoſuꝫ:ita ꝙ ad.b.ꝯſeruet̃ idẽ
gradus lumis: ꝗ tunc iſta rarefactio ad intenſionẽ lumis
equalr faceret ad.b.pũctũ ꝛ ad oẽm vlteriorẽ ſtãte lumi
noſo:ꝛ remiſſio luminoſi:ita ad oẽm punctũ vltra eqlr fa
ceret ſicut ad pũctũ taleꝫ.ſ.mediũ ad remiſſionẽ lumis me
dio nõ rarefacto:ꝗ ſicut ad.b.pũctũ eqlr faciũt rarefactio
medij ꝛ remiſſio luminoſi ita ad oẽm punctũ vltra.b.eq
liter faciũt. Et per ꝯñs ſicut ad.b.ideꝫ gradus lũis ꝯſerua
bit̃:ita ad oẽm vltra ꝯſeruabit̃ ideꝫ gdus. Añs pꝫ per.17.
ꝛ.18.ɔ̄nes.pꝫ ergo pª ps:ꝛ 2ª ſic arꝛ. ſicut puncta ſunt ꝓpin
quiora luminoſo:ita ad intenſionẽ luminis minus faceret

rarefactio ad iſta puncta q̄ ad.b.punctū: ꝛ remiſſio lumi/
noſi ad oīa puncta eq̄lr faciet ad remiſſionē lumis:ḡ cum
ad.b.punctū eq̄lr faciūt remiſſio luis ꝛ rarefactio medij:
ſeq̄r ꝙ ad oēm punctū citra.b.plus faciet remiſſio lumi/
noſi ad remiſſionē luis q̄ medij rarefactio faciet ad inten
ſionē lumis:igr̄ ad oēm punctū citra.b. remittet̄ lumen.
21ª ʒ ¶ Si ēt pars.b.medij ꝯdenſet̄ imeᵗᵉ agēte: ꝛ luminoſum
ita maioret̄:ꝙ ad extremū remotiꝰ illiꝰ ptis ꝯdēſate idez
gradus luis ꝯſeruabit̄ ad oēm punctū vltra id extremuz
intēdet̄ gradus lumis ꝛ ad oēz citra ꝯſeruabit̄ lumē:ſi ēt
ps medij ꝯdēſet̄ imeᵗᵉ agēte ſtāte pte reſidua ꝛ lumioſuz
intēdat̄:ita ꝙ ad extremū iſtiꝰ ptis idez gᵘ luis ꝯſeruabit̄
ad oēz pūctū vltᵃ ēt ꝯſeruabit̄ idē gᵘ:ꝛ ad oēz pūctū citra
22ª ʒ intēdet̄ lumē iſte ꝓbant̄ vt ꝑxie.¶ Si lumioſuz agēs in
meᵐ vniforme intēdat̄ in luie ꝛ minoret̄ in q̄titate:ita ꝙ
ꝯtinue agat per eq̄les diſtātiā nō variato meᵒ ſicut pūcta
ſunt ꝓpinqoꝛa extremo medij vbi eſt nō gᵘ:ita ad iſta tar
dius intēdet̄ lumē q̄ ad remotioꝛa:ꝛ ſi remittat̄ in lumie
ꝛ maioret̄ in q̄titate ita ꝙ ꝯtiᵉ agat per eq̄lez diſtātiā ſic
pūcta ſunt ꝓpinqoꝛa extreᵒ medij vbi eſt nō gᵘ:ita ad illa
tardiꝰ remittet̄ lumē q̄ ad pūcta remotioꝛa. Hec ps ꝓ pro
pᵃ pte:qꝛ ad extreᵐ vbi nūc eſt nō gradus ꝯtiᵉ erit nō gra/
dus:qꝛ ibi nullū lumē acq̄rit̄ extꝗ̄ lumioſuz ſolū aget vſqꝫ
ad iſtū punctū ꝛ ad punctū ſibi imediatū intendet̄ lumen
exq̄uo lumioſuz intēdet̄ ſemꝑ agēs totā latitudinē ad gᵐ
ſuū terminatā ꝛ lumē nūc eſt vniᵗ difforme ꝛ ſemꝑ erit:ḡ
lumē acq̄ſitū erit vniᵗ diffoꝛᵉ ad nō gᵐ terminatū verſus ex/
tremū remotiꝰ a luioſo:ḡ ſicut pūcta ſunt illi extreᵒ ꝓpin/
quioꝛa:ita ad iſta minoꝛ latitudo luis acq̄ret̄:ꝛ per ꝯñs in
ea ꝓpoꝛᵉ ad iſta tardioꝛ erit intēſio luis.Seq̄r ḡ iſta ps ꝛ
ſcōa ꝓbat̄ ſilr̄ mō per oia:qꝛ lumē nunc habitū eſt vniᵗ
diffoꝛᵉ ad nō gᵐ terminatū ꝛ ꝯtinue erit:igr̄ lumē deꝑditū
erit vniᵗ difforme ad nō gᵐ terminatuz verſus extremū re/
motiꝰ a luioſo:ḡ ſicut pūcta ſunt illi extremo ꝓpinquioꝛa:
ita ad iſta mioꝛ latitudo luis deperdet̄:ꝛ per ꝯñs in ea ꝓ/
23ª ʒ portione ad iſta tardioꝛ erit remiſſio luis.¶ Si lumioſuz
intēdat̄ in gᵘ ꝛ maioret̄ in q̄titate agēs in meᵐ vniforme
nō variatū ad pūcta remotioꝛa velociꝰ intēdet̄ lumen q̄
ad ꝓpinqoꝛa lumioſo:ꝛ ſi minoret̄ q̄titatiue ꝛ remittatur
in luie ad puncta remotioꝛa velociꝰ remittet̄ lumen q̄ ad
ꝓpinqoꝛa:ſꝫ nō in ea ꝓpoꝛtiōe velociꝰ in qua plus diſtat
a luminoſo.Sed ꝓpoꝛᵉ ſicut pūcta ab extremo imediato
luminoſi plus alijs diſtant:ſic velocitas intēſionis vel re/
miſſionis lumis ad puncta iſta magis diſtātia ꝑ plus exce
det velocitatē intēſionis lumis ad extremū imediatū agē
ti,q̄ velocitas intēſionis vel remiſſionis ad puncta ꝓpin/
quioꝛa excedit velocitatē ad idē extremū. Hec pro oi pte
declarat̄:qꝛ rōne intēſionis lumis illud lumioſuz ad oēm
punctū equeueᵉ intēdet lumē ſicut ad aliquē:ꝛ rōne maio
ratiōis q̄titatis velociꝰ intēdet lumē in pte remota q̄ ꝓ/
pinqua:ḡ per intēſionē lumioſi ꝛ maioꝛationē velociꝰ in/
tendit̄ lumen in pte remota a luminoſo q̄ in ꝓpinq̄.ꝛ ſilr
eſt ſi minoret̄ ꝛ remittat̄:qꝛ velociꝰ remittet̄ in pte remo
ta q̄ in ꝓpinq̄.pꝫ ḡ pᵃ ps.Sed nō in ea ꝓpoꝛtiōe velociꝰ:
qꝛ tunc ad aliquē punctū diſtātē aliqualr̄ veloᵗ intēderet̄
vel remitteret̄ lumē ꝛ in duplo tardius ad aliquē:ꝛ ſic in
infiᵐ:exq̄uo aliqs punctꝰ aliq̄lr diſtat a luminoſo:ꝛ in duᵒ
minꝰ aliqs:ꝛ ſic deinceps.ſed ꝯñs eſt fſꝫ:qꝛ ad oēm pūctū
intriſecū velociꝰ intēdet̄ lumē q̄ ad punctū extrinſecum
imediatū agēti:qꝛ ſi luminoſuz nō augmētaret̄ ſed ſolum
intēderet̄:ad oēm punctū intrinſecū equeueᵉ ꝑciſe inten/
deret̄ lumē ſicut ad extremū illud:ſed per maioꝛationez
ad oēm punctū intrinſecū intēdit̄ lumē:ꝛ nō ad extremū:
ḡ ad oēm punctū intrinſecū velociꝰ intendet̄ lumen q̄ ad
punctū imediatū lumioſo:ḡ nō in ea ꝓpoꝛtiōe velociꝰ ꝛc.

Ultima etiaz pticula ꝓbat̄ ſic:totū manebit ꝯtiᵉ vniſoꝛᵗ
difforme illuminatū ꝛ intēdet̄ velociꝰ in parte remota q̄
ꝓpinqua:ḡ intendet̄ mediāte latitudine vniſoꝛᵗ difformi
terminata in extremo remiſſioꝛi ad extremū imediatū lu
minoſo:ḡ ſicut pūcta plus ab iſto puncto diſtant ſic ꝑ plus
velocitas ad punctū magis diſtantē excedit velocitatē ad
extremū imediatū agēti q̄ velocitas ad punctū minus di
ſtantē ꝛc.ſequit̄ ḡ ꝯclō.¶ Si luminoſuz agēs in mediuz 24ª ʒ
vniſoꝛᵉ remittat̄ in gradu ꝛ maioret̄ in q̄titate velocius
ꝓpoꝛᵗ:ita ꝙ ſufficiat agere per maiorē diſtantiā ꝛ maiorē:
aliqua eſt ps in qua icipit lumē remitti:ꝛ aliq̄ eſt certa ps
in qua icipit intēdi:ꝛ per aliq̄ tꝑs pōt durare hꝰ remiſſio
luioſi ꝙ ad aliquē punctū ꝑus intēdet̄ lumen ꝛ poſtea re/
mittet̄.Agat.n.a.luioſuz in.b.meᵐ vniſoꝛᵉ ꝛ remittat̄.a.in
gradu:ſed velociꝰ ꝓpoꝛtiōabilr̄ maioret̄ in q̄titate:ita ꝙ
ſufficiat agere per maiorē diſtātiā q̄ ꝑus:ꝛ capiat̄ extreᵐ
vbi nūc eſt nō gradus luis:ꝛ ſeq̄r exq̄uo ſufficiet continue
agere per maiorē diſtātiā ꝛ maiorē ꝙ vbi nūc eſt nō gra/
dus ꝯtinue poſt hoc erit aliqs gradus luis:ꝛ tota latitudo
erit vniſoꝛᵗ difformis ad illuz punctū in pīᵒ ad nō gradū
terminata:ḡ nūc icipit in aliq̄ pte lumē intēdi.Et ꝙ ſit da/
re aliquā ptez in qua lumē icipit remitti:ſic ꝓbat̄.aliq̄ eſt
velocitas qua lumē icipit remitti ad extremū imediatū.a.
ꝛ per totū tanta velocitate remitteret̄ lumē ſi.a.nō maio/
raret̄ in q̄titate:ꝛ per maioꝛationē q̄titatis ſtāte lumioſo
in gradu intēderet̄ lumē latitudine terminata ad extremū
imediatū.a.ad nō gᵐ:erit ḡ dare certā partē terminatā ad
a.ad cuiꝰ quēlꝫ punctuꝫ icipiet lumē tardiꝰ intēdi ꝑ maio/
rationē.a.q̄ incipet remitti per minoꝛationez luis.a.ꝛ per
ꝯñs cū illa remiſſione ꝛ maioꝛatiōe.a. per certā ptē icipit
lumē remitti.ſ.per totā ptē terminatā ad punctū ad quez
cū iſta maioꝛatiōe q̄titatis deducta remiſſione.a.incipet
lumē equeueᵉ intēdi ſicut inciper ad eandē pūctū remitti
nō maioꝛato luioſo ꝛ ipſo remiſſo in ḡdu. ḡ pꝫ pᵃ ps ꝯnis.
Et alia ps ſic arᵗ. Det̄ punctꝰ aliqs vbi nūc lumē icipit in/
tendi ꝛ det̄ gradus lumis qui erit ad illuz pro aliq̄ inſtāti
tꝑis in quo lumē ad idez intēdet̄ qui ſit.c.tūc per aliq̄ tꝑs
pōt eē remiſſio ꝙ.a.aliq̄n erit ſub ḡdu remiſſioꝛi q̄ eſt.c.
ꝛ ſi.a.fuerit ſub gᵘ remiſſioꝛi q̄ eſt.c.ad nullū punctū aget
tantū gᵐ ſicut eſt.c.qꝛ nō aget gᵐ intenſiorē gᵘ ſuo:ḡ ſic pōt
a.remitti ꝙ illi pūcto cui pmo.c.ḡdus correſſdebat poſtea
eidez gradus remiſſioꝛ correſſdeat q̄ eſt.c. ḡ ad talez pun/
ctū aliq̄n erit remiſſio luis ꝛ ꝑus ad illuz erat intenſio per
poſitū:ḡ ſeq̄r ꝯclō.¶ Silr̄ vbicūqꝫ luminoſuz intēdit̄ in
gradu agēs in mediū vniſoꝛᵉ ꝛ minorat̄ in quātitate:ita ꝙ
ſua poᵉ minoret̄ ad aliquē punctū icipit lumē intēdi ꝛ ad
aliquē remitti.Agat.n.a luminoſuz in.b. mediū vniforme
ꝛ intēdat̄.a.in gradu ꝛ minoret̄ in q̄titate:ita ꝙ agat ꝯtiᵉ
per minorē diſtātiā ꝛ minorē:tūc ſeq̄r ꝙ imeᵗᵉ poſt h̄ erit
nō gradus lumis vbi nūc eſt gᵘ lumis: ḡ nūc icipit lumen
remitti in aliq̄ pte ꝛ icipit in alia intēdi:qꝛ per minoꝛatio/
nem q̄titatis ſtante gradu remittet̄ lumē latitudie termi
nata ad nō gᵐ verſus.a.per.16. ꝛ.18.ꝯnes ad oēm punctū
per intēſionē.a.ſtāte q̄titate equeᵉ intēderet̄ lumē ſicut ad
aliquē:ḡ per certā partē velociꝰ intēderet̄ lumē per inten
ſionē.a.q̄ remitteret̄ ꝑ minoꝛationē eiuſdē:ḡ per totā iſtā
ptē intēdet̄ lumē.Uel ſic.ad extremū imediatū ipſi.a.in/
tendet̄ lumē:ḡ nec̄io ad aliquē punctū intrinſecū intēdet̄
lumē:qꝛ ipoſe eſt ꝙ in iſto medio intēderet̄ lumē ꝛ ſoluꝫ
ſm̄ ſupficiē vel pūctū.¶ Uerūtn̄ ſi luioſuz agens in meᵐ
vniforme nō variatū intēdatur in gᵘ ꝛ mioret̄ in q̄titate:
ita tn̄ ꝙ in poᵉ maioret̄ ꝛ cōtinue agat per maiorē diſtan/
tiā ꝛ maiorē ad oēm punctū ꝯtiᵉ intēdet̄ lumē:qꝛ tūc lati/
tudo ꝯtinue erit maioꝛ ꝛ maioꝛ:ꝛ ꝯtinue erit per maiorē ꝛ
maiorē diſtantiā acta:ḡ ad oēm punctū erit lumē intēſius

⁊ inteſius. ꝯña pȝ. Si. n. quieſcēte extremo inteſiori latitu-
dinis aliqs gradus ꝓgrederet ad extremuȝ: ⁊ quilȝ gdus
intrinſec⁹: tūc quilȝ gradus recederet ab extremo vbi eſt
extremū inteſius illi⁹ latitudis: ⁊ per ꝯñs ad oēm punctū
intēderet lumē: g̃ a multo fortiori cū iſta latitudo cōtinue
terminabit in extremo inteſiori ad gᵐ inteſiorē ⁊ aget per
maiorē diſtantiā ⁊ maiorē: ſeqt̃ q̄ ꝯtinue intendet lumen
3 16ᵐ ad oēm punctū. ¶ Cōtra ꝯnez 16ᵃᵐ obycit̃ ſic. Creſcat. a.
ꝯnem lumioſuȝ a nō q̄to vniſor' quouſqȝ ſufficiat agere ꝑ meᵐ
vni⁹ ⁊ maneat ꝯtinue. a. vniforme eodeȝ gᵘ: ⁊ nō variet̃. b.
meᵐ in raritate vel denſitate: tūc po". a. creſcet vniſor' a nō
quāto: ſiue a nō gradu: q2 creſcet eque ꝓportionabilr̃ cum
quātitate. a. g̃ vniſor' maiorabit̃ diſtātia per quā ſufficiet
agere: g̃ in inſtāti medio ſufficiet agere ꝑ medietatē. b. ⁊ in
fine triū quartaꝝ toti⁹ t̃pis ſufficiet agere per tres q̃rtas: ⁊
ſoluȝ ꝑ t̃ps per qḋ ſufficiet agere ad punctū aliquē intēdet̃
lumē ad eundeȝ vt pȝ: g̃ ſoluȝ ꝑ ſc̄daȝ medietatē toti⁹ t̃pis
intēdet̃ lumē ad punctū meᵐ: ⁊ per in du⁹ min⁹ t̃ps inten-
det̃ lumē ad punctū terminātē tres quartas. b. q̃ȝ ad pun-
ctū mediū: ⁊ in du⁹ minor latitudo ꝑciſe acqret̃ pūcto ter-
mināti tres quartas. b. q̃ȝ puncto medio: g̃ equeue' preciſe
intēdet̃ lumē ad punctū terminātē tres quartas ſicut ad
punctū mediū ⁊ nō veloci⁹. ꝯña appet: q2 mediāte equali
velocitate preciſe pōt lumē vel alia latitudo ſubdu⁹ acqri
in t̃pe ſubduplo ſic̃ dupla in t̃pe du⁹. Et añs pȝ: q2 in fine
erit. b. mediū vniſor' difforme terminatuȝ ad nō gᵐ: g̃ ad
punctū mediū tūc erit in duplo inteſior g⁹ q̃ȝ ad gᵐ termi-
nantē tres quartas ⁊ nō a gradu intēdet̃ lumē ad vtrūqȝ
Rño punctū vt pȝ manifeſte. g̃ ꝯña eſt fl̃a. ¶ Pro iſto dī cōce-
dendo ꝯnez: ⁊ ad argūᵐ in oppoᵐ admittat̃ caſus ⁊ diſtin-
guat̃ hec ꝓpō equeue' intēdet̃ ad punctū mediū ſicut ad
pūctū terminātem tertiā quartā: q2 pōt ſigr̃e q̄ ſimul ad
iſta duo pūcta equeue' lumē intēderet̃: ⁊ id eſt falſuȝ: ⁊ ſic
nō valet iſta ꝯña qñ ꝯcludit̃ iſta ꝓpō in iſto mō. Nā iſto
mō verificat̃ ꝯcl'o. ſ. q̄ qñ ſimul lumē intēdit̃ lumen per
maiorationē quātitatis ad punctū ꝓpinquiorē ⁊ ad pūctū
remotiorē veloci⁹ intēdit̃ lumē ad punctū magis diſtāteȝ
q̃ȝ ad punctū minus diſtāteȝ: ⁊ illud eſt veꝝ. Sed alio mō
pōt itelligi q̄ tota inteſio ad mediū punctū cathegorema-
tice eſt eq̄lis toti inteſioni cathegoᶜᵉ ad punctuȝ terminā-
tem tertiā quartā. ⁊ tūc eſt iſta ꝓpō vera ⁊ ꝯña bona ꝯclu-
dens iſtā ꝓpōneȝ. Iſta tñ ꝓpō ſic itellecta nō eſt ꝯ ꝯnez.
25ᵃ ꝯ ¶ Unde pro iſto eſt notāduȝ q̄ vbi luminoſum agens in
meᵐ vniforme nō variatū maioret̃ vniſor' in q̄titate: ita
q̄ ſua po" vniſor' maioret̃ ad oēm punctū tardi⁹ ⁊ tardi⁹
intēdet̃ lumen: q2 ſi nō ſit. a. id luminoſuȝ ⁊. b. id meᵐ vni-
forme: ⁊ ſit. c. vnus punct⁹: ⁊ ꝓbat̃ q̄ ad. c. punctū tardius
⁊ tardius intēdet̃ lumen: q2 exquo po" vniſor' maiorabit̃
diſtātia per quā erit actio vniſor' maiorabit̃: ⁊ per ꝯñs ex-
tremū remiſſi⁹ illi⁹ latitudis lumis acti vniſor' mouebit̃
⁊ quilȝ alius gradus ſiliꝝ: exquo tota cōtinue manebit vni⁹
difformis: det̃ g̃ inſtās aliqḋ in quo ad. c. pūctū ꝑmo deue-
niet lumē vel actio: tūc erit ibi extremuȝ remiſſi⁹ illi⁹ lati-
tudinis certenelo' mouēs ⁊ veloci⁹ q̃ȝ vnq̃ȝ poſt mouebit̃
gradus aliqs eideȝ puncto corrñdens: ⁊ latitudo ēt lumis
citra punctū. c. erit maior extēſiue q̃ȝ vnq̃ȝ poſt hoc erit la-
titudo ad ideȝ punctū terminata: g̃ veloci⁹ tūc intēdet̃ lu-
men vel incipiet intēdi ad. c. punctū q̃ȝ vnq̃ȝ poſt: ⁊ ſic pro
oī inſtāti ꝑori veloci⁹ q̃ȝ pro poſteriori. ꝯña pȝ ſic. ſi eſſent
due latitudines eq̄les per eq̄lia ſubiecta extēſe: quarū ex-
trema remotiora mouerent̃: ita q̄ cuilȝ pūcto vtriuſqȝ g⁹
inteſior corrñdeat q̃ȝ in ꝑn⁹: ⁊ extremū vni⁹ veloci⁹ moue-
ret̃ extremo alteri⁹ manētibus latitudinib⁹ vniſor' diffor-
mib⁹: ad oēm pūctū iſti⁹ in quo latitudo moueret̃ veloci⁹
velocior erit inteſio q̃ȝ ad punctū corrñdentē alterius vt

notū eſt: eo q̄ in iſto velocius accedant gradus inteſiores
verſus pūcta ſua q̃ȝ in alio. Sed ſi latitudo maior exten-
ſiue maneret per eq̄le ſubm̄ extēſa ſicut minor ⁊ equeue'
moueret̃ quieſcēte extremo inteſiori cū ſubo ſuo velocior
erit inteſio q̃ȝ in alio in quo latitudo minor ꝓgredit̃ vt pȝ:
q2 gradus equediſtātes inteſiue in maiori latitudie ſūt ꝓ-
pinquiores extremo ⁊ aliqs pūctis: eo q̄ in oī pte ſubiecti
in qua maior latiᵗᵘ extēdit̃ maior eſt latitudo q̃ȝ in parte
eq̄li alteri⁹: g̃ ex his a fortiori ſeqt̃ q̄ qñ eſt maior latitu-
do veloci⁹ mouēs q̃ȝ minor: ⁊ per ideȝ ſubm̄ veloci⁹ inten-
dit̃ q̄litas in iſto q̃ȝ vbi latitudo eſt minor: ſeqt̃ g̃ q̄ ad. c.
pūctū pro oī inſtāti poſteriori tardi⁹ intēdet̃ lumē q̃ȝ pro
priori: ⁊ ita de oī alio pūcto eſt arguēduȝ. g̃ ſequit̃ ꝯcluſio.
¶ Contra 18ᵃᵐ ꝯnez arg' deducēdo ad iſtā ꝯnez q̄ aliqḋ 3 19ᵐ
eſt vniforme per totū qḋ remittet̃ vnico gᵘ vniformi: ⁊ tñ ꝯnem
cōtinue poſt hoc erit vniſor' diffor'. Sed hec ꝯcl'o eſt fl̃a:
q2 ſi nūc ſit vniſor' ⁊ per totuȝ remitteret̃ vno gradu vni-
formi: ſeqt̃ q̄ eq̄lis latitudo vbiqȝ deꝑdet̃. nō. n. erit ma-
ior rō quare ad vnū punctū erit lumē remiſſius q̃ȝ ad ali-
quē: g̃n eadeȝ rōne ad illuȝ erit remiſſi⁹ lumē q̃ȝ ad aliquē
qḋ eſt ipoſle. ¶ Et q̄ iſta ꝯcl'o ſequat̃ ar' ſic. Det̃ lumino-
ſuȝ vniforme īfinite inteſuȝ per totū qḋ ſit. a. ⁊ agat per. b.
meᵐ vniſor': tūc. b. meᵐ eſt vniſor' illuminatū: q2 vndiqȝ
eſt lumē infinite inteſuȝ. q2 ſi nō: ſit. c. punct⁹ vbi nō eſt lu-
men īfiᵐ: ꝯ ꝯtingit dare luminoſuȝ finite inteſuȝ qḋ ſuffi-
cit agere oēm gᵐ inteſiorē q̃ȝ eſt iſte qn̄tūqȝ det̃ ⁊ ad maio-
rem diſtātiā q̃ȝ ſit diſtātia que eſt iter extremū. b. imedia-
tuȝ. a. ⁊. c. punctū vt notuȝ eſt: q2 quiſcūqȝ gradus det̃ ille
ab aliquo poſſet agi per aliquam diſtantiam ⁊ ab aliquo
alio per in duplo maiorē diſtātiā: ⁊ ſic in infiᵐ vt pȝ. Sed
iſtud lumioſuȝ eſt maioris po' q̃ȝ aliqḋ finite quātitatis ⁊
finite inteſuȝ: g̃. a. per maiorē diſtātiā q̃ȝ eſt iter extremuȝ
b. ⁊. c. punctū ſufficit agere gᵐ quē ponit̃ ipſuȝ agere ad. c.
pūctū. ſeqt̃ g̃ q̄ lumē ſuū eſt vniſor': ita q̄. b. meᵐ eſt vni⁹
illuminatū. remittat̃ g̃. a. lumioſuȝ per totū: ita q̄ maneat
vniforme ⁊ agat ꝯtinue in. b. meᵐ vniſor': tūc exquo. a. cō-
tinue poſt h̃ erit ſoluȝ finite po': q2 q̄titatis ⁊ inteſionis fi-
nite: g̃ lumē actū ab eo in. b. erit vniſor' difforme ſicut po-
nit ꝯcl'o 12ᵃ. ⁊ per ꝯnez 18ᵃᵐ id lumē ꝯtinue remittet̃ vno
gradu vniformi: g̃ ſeqt̃ ꝯ. Ideo ſeqt̃ illa ꝯcl'o: nec eſt incō-
ueniens vbi totū eſt vniforme g⁹ infinito: q2 lȝ īfinita lati-
tudo ad duo puncta deꝑderet̃: ſtat tñ vnū eſſe quātūcūqȝ
inteſuȝ volueris ⁊ aliud remiſſum. Exquo īfinita latitudo
infinities īfinitā latitudinē ꝯtinet: tñ lȝ vtrūqȝ per infinitū
ꝯtinue diſtabit ab infinito gradu: quoꝝ vtrūqȝ remittetur
eque' cū alio ſtat vnū in quacūqȝ ꝓportiōe volueris ma-
nere alio inteſius ſicut ſic: ſit. a. in duplo inteſius. b. ⁊ inten-
dat̃ equeue' in īfiᵐ: ⁊ ſeqt̃ q̄. a. ꝯti' citra finē erit inteſi⁹. b.
ergo ēt in via remiſſionis ſi vtrūqȝ remitteret̃ ꝯſilr̃ ſicut
intēdebat̃ eēt. a. ꝯtinue inteſius. b. Añs pȝ: q2. a. nūc eſt in-
tenſius. b. ſ. in ꝑn⁹ inteſionis ⁊ equeue' ꝯti' intēdet̃ cum. b.
ergo. a. ꝯtinue erit inteſius. b. ⁊ ſic nō eſt incōueniens vbi
incipiūt remitti a gradu īfinito. Si tñ forent ſub eodeȝ gᵘ
finito ⁊ equeue' remitterent̃ ꝯtinue ipſa ꝯtinue equalr̃ oī
ſtarent a gᵘ illo ⁊ per finitū ſolum: g̃ iſta ſemꝑ eſſent ſub
eodeȝ gradu: ⁊ ſic nō ꝓcedit argᵐ. ¶ Pro quo ponantur
queda3 r' tenentes in oī mā: quaꝝ ꝑ⁹ eſt hec. ¶ Non ſunt ꝑ⁹ regᵃ
aliqui gradus lumis motᵘ ſeu q̄litatis: vel cuiuſcūqȝ alte-
rius latitudis: g̃n equali velocitate in eodeȝ t̃pe ad illos a
gradu infinito poſſit fieri remiſſio. ¶ Sc̄da ſi a gᵘ īfinito 2ᵃ regᵃ
remittant̃ aliq̄: quoꝝ vnū alio ꝯtinue in certa ꝓporᵗᵉ ve-
locius remittat̃ vel in ꝓporᵗᵉ maiori certa ꝓportiōe data
qḋcūqȝ fuerit illud per magnū t̃ps manebit inteſius qḋ
velocius remittet̃. ¶ Prima pȝ: q2 nō ſunt aliqui gradus
ineque inteſi in aliqua latitudine g̃n ſi aliqua duo ab illis
gradibus

gradib⁹ eq̄uelo⁹ itẽderent̃ ↄ̄tinue: ⁊ vtrũq₃ itẽderet̃ in ifi^m eq̄cito deuenirẽt ad gradũ ifinitũ: q₃ aliter vnũ acq̄reret ĩfinitã: q̄ alíud acq̄reret latitudinẽ ſolũ finitã: ⁊ p̄ ↄ̄ñs nõ eq̄uelo⁹ itẽderent̃. ↄ̄ñs falſuʒ. Seq̄t̃ ḡ q̄ talia ſic iteñſa eq̄cito ad gradũ ĩfinituʒ deuenirẽt: ḡ ipa ↄ̄ſilr̃ remiſſa a gradu ĩfinito nec̃io eq̄cito deuenirẽt ad gradus a q̄b⁹ p̄ incipiebãt itẽdi: q̄d fuit pbãdũ. ḡ p₃ p^a regula. ❡ Et 2ª ſic p₃: q̄a ſi nõ remittat̃.a. ↄ̄tinue in.f. ppor^{ne} veloci⁹.b. vt in duplo velocius vel in triplo: ⁊ ſic in ifi^m: q̄a nõ erit cura q̄cũq₃ fuerit f. ppor^o: ⁊ det̃ iſtãs aliq̄d in quo nõ erit remiſſio facta ad nõ g^m q̄d ſit.c. tũc.b. diſtabit a nõ gradu per certã latitudinẽ: ḡ erit aliq̄d iſtãs citra.c. in quo in.f. ppor^{ne} per plus diſtabit a nõ gradu q̄₃ a gradu habito in.c. iſtãti: ex q̄ cũʒ.b. remittet̃ a g^u ifinito nõ faciẽdo ſaltũ p aliq̄₃ certã p̄tẽ ill⁹ latitudis: ſeq̄t̃ q̄ nulla eſt ppor^o imaginabilis q̄n in tãta p plus diſtabit.b. ante.c. iſtãs a nõ g^u q̄₃ a g^u habito: ex q̄ per infi^m diſtabit.b. ante.c. a g^u hñdo in.c. iſtãti. Sit ḡ.d. inſtãs in quo in.f. ppor^e plus diſtabit.b. a nõ gradu q̄₃ a g^u hñdo in.c. iſtãti: tũc ſic in.f. ppor^e veloci⁹ remittet̃.a. q̄₃.b. per totũ t̄ps iter.c.d. iſtãtia: ḡ in.f. ppor^e maiorẽ latitudinẽ dep̄det.a. q̄₃.b. ḡ ſi in.d. iſtãti erit.a. p̄ciſe eq̄ue itẽſuʒ cũ.b. ſeq̄t̃ q̄ eq̄cito remittet̃ ad nõ g^m ſicut.b. ad g^m hñdũ in.c. iſtãti: q̄r vna illaꝝ lati^{num} in.f. ppor^e eſt maior alia p poſituʒ: ⁊ ſi.a. tũc erit remiſſius.b. ſicut in.d. iſtãti: ſeq̄t̃ per ar^m factuʒ q̄ ante.c. inſtãs remittet̃ ad nõ g^m. ↄ̄ñs ↄ̄tra poſitũ. ſeq̄t̃ ḡ q̄ in.d. iſtãti erit.a. intẽſius.b. ⁊ ↄ̄ti^e ante.d. ex q̄.n. ↄ̄tinue ante d. iſtãs veloci⁹ remittet̃.a. q̄₃.b. ⁊ in.d. iſtãti erit ineq̄ue intẽſuʒ cũ eo: ⁊ ↄ̄ti^e ante.d. erit.a. intẽſius. Ex^m ad iſtud remittat circulus circũuolut⁹ motũ ſuũ a g^u ifinito. ⁊ ſeq̄t̃ q̄ pũct⁹ terminãs ſemidiametrũ in circũferẽtia in dup^o veloci⁹ mouebit̃ q̄₃ pũct⁹ medi⁹ ſemidiametri eiuſdẽ: q̄a deſcribet lineã duplã in t̄pe eq̄li: ⁊ ideo ↄ̄ti^e in duplo veloci⁹ remittet motũ ſuũ: tũc pũct⁹ circũferẽtialis q̄₃ pũct⁹ medi⁹ ſemidiametri: ḡ id eſt veꝝ in iſto caſu q̄ id q̄d ↄ̄ti^e in duplo veloci⁹ remittet̃ in duplo veloci⁹ ↄ̄ti^e mouebit̃. Unñ ſi duo remittant̃ a g^u ĩfinito: q̄rũ vnũ alio ↄ̄ti^e in certa ppor^e velocius remittet motũ ſuũ que remittent̃ ad nõ g^m: vl' ad eũdẽ in t̄pe eq̄li ſicut p₃ eẽ poſſibile in via itẽſionis id q̄d veloci⁹ remittet motuʒ ſuũ: vel in aliq̄ alia q̄titate veloci⁹ remittẽs ↄ̄ti^e manebit intẽſius: ex q̄.n. veloci⁹ remittet̃ per plus ↄ̄ti^e manebit diſtãs a g^u hñdo in fine: vel a nõ gradu ſi ad illũ remitteret̃ q̄₃ illud q̄d tardi⁹ remittet̃: aliter.n. citius ad illũ g^m vel ad nõ g^m deueniret. Si ẽt illud q̄d velocius remittet̃ nõ remittat̃ ad g^m ita remiſſuʒ ſicut aliud ipm tñ ↄ̄ti^e manebit alio itẽſius p idẽ ar^m. Si tñ remitteret̃ ad g^m remiſſiorẽ q̄₃ id tardi⁹ remiſſuʒ adhuc p magnũ t̄ps maneret illud veloci⁹ remiſſuʒ itẽſius alio: ſicut pbat̃ ſufficiẽter per ar^m factũ ad pbõnẽ 2^e regule. ❡ Nota ẽt q̄ addit̃ iſte terminus vel in certa ppor^e data ppor^e maiori: q̄a vbi in nulla ppor^e certa incipit vnũ alio velocius remitti non op₃ ↄ̄nẽ eẽ verã: ſicut p₃ ſic. Sit eniʒ.a. intẽſius.b. ⁊ diuidat̃ hora in p̄tes ppor^{les} v̄ſus finẽ: ⁊ intẽdat̃.a. in oĩ p̄te ppor^{li} vnifor^r ad ſuũ duplũ. Et intẽdat̃.b. vnifor^r: ita q̄ in omni p̄te ppor^{li} minoret̃ exceſſus.a. ſup.b. ad ſubdu^m: ⁊ fiet exceſſus.a. ſup.b. in fine p̄me p̄tis ppor^{lis} in duplo minor q̄₃ nũc: ⁊ in fine ſcđe fiat exceſſus in du^o minor q̄₃ in p̄n^e eiuſdẽ: ⁊ ſic deinceps. Tũc ex q̄ exceſſus.a. ſup.b. ↄ̄tinue minorabit̃ per poſitũ: ſeq̄t̃ q̄.b. ↄ̄tinue veloci⁹ intẽdet̃ q̄₃.a. Si eiʒ eq̄uelo^r itẽderet̃.b. cũ.a. ↄ̄tinue foret eq̄lis exceſſus.a. ſup.b. ſicut in p̄n^o: vel ſi tardi⁹ intẽdet̃.b. q̄₃.a. exceſſus maioraret̃: vt notũ eſt. Cũ ḡ exceſſus minorabit̃: ſeq̄t̃ q̄ veloci⁹ itẽdet̃.b. q̄₃.a. ⁊ ad g^m ifinitũ eq̄cito deueniẽt: ex q̄ exceſſus iter illa diminuet̃ ad nõ g^m. ḡ ſi ecõtra ↄ̄ſilr̃ remitteret̃ ſicut nũc intẽdet̃ ↄ̄tinue veloci⁹ remitteret̃.b. q̄₃.a. ⁊ ↄ̄ti^e maneret eo remiſſius ſicut eſt in via intẽſionis. S₃ tũc in nulla ppor^e veloci⁹ incipet.b. remitti q̄₃.a. ſicut nec in via itẽn^{is} in aliq̄ ppor^e velocius deſinet intẽdi.b. q̄₃.a. q̄a ex q̄ in oĩ p̄te ppor^{li} diminuet̃ exceſſus ad ſubduplũ: ſeq̄t̃ q̄ in p^a p̄te ppor^{li} in certa pportione veloci⁹ intẽdet: ⁊ in 2^a in minori ppor^e velocius: ⁊ ſic in ĩfinitũ: q̄a nõ in tãta pportione plus acq̄ret.b. q̄₃.a. in 2^a p̄te pportionali ſicut in p^a: ⁊ ideo in nulla ppor^e velocius deſinet itẽdi: ⁊ per ↄ̄ñs ecõtra in nulla ppor^e veloci⁹ incipiet.b. remitti q̄₃.a. ⁊ ideo nõ tenet regula ibi. ⁊ illud eſt cã additiõis ill⁹ p̄tis diſiũctiue. Unñ ẽt ſicut a gradu ĩfinito ad oẽs gradus eq̄ue intẽſos p eq̄uelocẽ remiſſionẽ in eodẽ t̄pe poterit deuenire: ita non ſunt gradus aliq̄ q̄n per velociorẽ remiſſionẽ eq̄ueciro deueniet vnuʒ remiſſum ad vnũ illoꝝ graduũ ſiue fuerit intẽſior ſiue remiſſior: ſicut illud q̄d tardius remittit̃ ad gradũ aliũ poterit deuenire. Hoc ſatis p₃ per intẽſionẽ: ſiue.n. illud velocius itẽſuʒ incipiat ab eodẽ gradu intẽdi ſiue ab intẽſiori ſiue a remiſſiori eq̄uecito deueniet ad gradũ infinitũ: vt p p̄dicta demõſtrat̃ eẽ veruʒ: ⁊ ſic p₃ ſolutio arg^{ti} facti ↄ̄tra ↄ̄nẽ.18. ❡ Cõtra tñ illã ⁊.16. ⁊.17. ſimul per iſta p̄dicta arguit̃ ſic. Sit eiʒ.a. certe q̄titatis ⁊ luminoſum gradu ĩfinito agens in.b. me^m vniforme: ⁊ remittat̃ in gradu ⁊ minoret̃ in q̄titate manẽte.b. medio vnifor^r raro vt p̄us: ⁊ ſint c.d. duo pũcta: q̄ruʒ.c. per plus diſtet ab.a. q̄₃.d. Et arg^r ſic rõne remiſſionis in gradu ad.c.d. pũcta equalr̃ remittet̃ lumẽ per ↄ̄nẽ.18. ⁊ per minoratiõeʒ q̄titatis.a. veloci⁹ ad c. pũctũ remittet̃ lumẽ q̄₃ ad.d. pũctũ per ↄ̄neʒ.16. ḡ rõne remiſſionis luminis ⁊ minoratiõis q̄titatis veloci⁹ remittet̃ lumẽ ad.c. pũctũ q̄₃ ad.d. ⁊ per ↄ̄ñs iuxta rõnẽ poſitaʒ ad iſtas regulas ad.c. punctũ per magnũ t̄ps manebit lumen intẽſius q̄₃ ad.d. pũctuʒ: q̄a a gradu ĩfinito ad vtrũq₃ pũctũ remittet̃ lumẽ: ⁊ ſic totũ nõ manebit vnifor^r difforme. ↄ̄ñs falſuʒ ⁊ ↄ̄tra ↄ̄nẽ.12. Silr̃ ſi eẽt lumẽ intẽſius ad c. pũctũ q̄₃ ad.d. ⁊.c. magis diſtat: igit̃ fortius ageret in remotũ q̄₃ in ppinquũ: vbi mediũ eſt vniforme. ↄ̄ñs falſuʒ: q̄r melius applicat̃ pũct⁹ ppinquiori q̄₃ remotiori. ❡ Pro iſto dĩ ↄ̄cedẽdo ↄ̄nẽ vt p̄us ⁊ admittat̃ caſus: ⁊ ↄ̄cedit̃ q̄ q̄cũq₃ inſtãti dato velocius remittat̃ lumẽ ad.c. pũctũ q̄₃ ad.d. pũctuʒ. ⁊ negat̃ ↄ̄ñtia: q̄n vlterius ↄ̄cludit̃ q̄ per magnuʒ t̄ps erit lumẽ intẽſius ad.c. punctũ q̄₃ ad.d. nec tenet iſta ↄ̄ñtia per regulas ſ̄poſitas nec p rẽſionẽ: q̄r in regula iſta 2ª ponit̃ q̄ ſi in certa ppor^e veloci⁹ incipiat vnuʒ alio remitti a gradu ĩfinito vel certa ppor^e data ppor^e maiori: tũc id q̄d velocius remittet̃ per magnuʒ t̄ps erit intẽſius: ⁊ nõ ſi in nulla ppor^e velocius incipiat remitti: vt declaratũ eſt in nõbili penulr^e. ſ₃ ſic eſt in caſu iſto de.c.d. pũctis: q̄.ſ. in nulla ppor^e velocius incipit lumẽ remitti ad.c. pũctũ q̄₃ ad.d. ideo nõ p̄cedit ar^m. Añs ſic declarat̃: ſi ſtaret lumẽ in.a. q̄ãtumcũq₃.a. minoret̃ in q̄titate nõ aliq̄lr̃ velociter inciperet lumẽ remitti ad.c. punctũ nec ad.d. imo maneret ibi lumẽ ĩfinituʒ: q̄a totũ ↄ̄tinue maneret ĩfinite potẽtie. ⁊ ideo non incipit minoratio q̄titatis.a. facere ad remiſſionẽ luminis ad.c. pũctũ nec ad.d. S₃ ſi ſtaret q̄ãtitas.a. equalr̃ p̄ciſe incipet lumẽ remitti ad illa duo puncta: ideo in nulla ppor^e velocius incipiet lumẽ remitti ad c. punctũ q̄₃ ad.d. ↄ̄ñtia tenet vt ſi per remiſſionẽ luminis ad.c.d. pũcta incipet lumẽ remitti gradu vt 4^{or} p̄ciſe: vbi tñ in caſu iſto incipit gradu ĩfinito ⁊ nihil incipet minoratio q̄titatis facere ad remiſſionẽ luminis ad illa pũcta in nulla ppor^e velocius incipet lumẽ remitti ad vnũ pũctuʒ q̄₃ ad aliũ: q̄a in nulla ppor^e veloci⁹ incipet lumen remitti ad illa pũcta q̄₃ ſi vtrũq₃ lumẽ ad illa pũcta gradu vt 4^{or} remitteret̃. Sic ḡ erit a fortiori vbi ab ĩfinito gradu: ⁊ eq̄uelociter incipiũt lumina ad.c.d. puncta remitti rõne remiſſionis luminis: ⁊ nullus eſt gradus quo incipit lumen ad illa pũcta remitti rõne minoratiõis q̄ãtitatis: ḡ ad.c.

Cõtra.16. ⁊.17. ↄ̄cluſiones.

Reſ.

pūctū in nulla ppor͂ veloci' incipet lumē remitti q̄ȝ ad.d.
26.ȝ pūctū: ⁊ ideo nō pcedit ar^m ȝ illas ꝯnes.16.⁊.18. ¶ Qua-
litercūqȝ me^m ſit difforme luminoſuȝ vnifor' lumē vnifor'
in illō mediū nō pōt agē niſi forte fuerit ꝑ reflexionē vel
aliūde accidentr: ita q̄ſ.luminoſuȝ itēdat ꝯt' actionē ſuā
ſdirectā: ⁊ h̄ loq̄r' de luminoſo finite po'.hec pȝ: q2 ſi nō;
ſit illō luminoſuȝ.a.⁊.b.me^m illō tūc per pbatā ꝯnē u^{a}.a.
aget in.b.me^m g^m ſuū: vel ſaltē oēȝ g^m citra g^m ſuuȝ.Si g̊.b.
me^m erit vnifor' illuminatū: ſeqꝉ q̄ erit vnifor' illuminatū g̊.
a.q2 q̄ſcūqȝ alius g' remiſſior dēi: g' aliqs iſto itēſior erit
ad aliquē pūctū itrin^{cum}: ſȝ illō.b.me^m nō erit vnifor' g'.a.
g̊ ſeqꝉ q̄ nō erit vnifor' illuminatū. Minor ſic ar'. ꝯungāt
dare ptē aliq̄ȝ nō vniformē g'.a.nā dēr pūct' aliqs: vbi ſ.
terminabiꝉ minima dēſitas: tūc ſi tota pars itercepta eēt
vnifor^m g' talis dēſitatis ad illō pūctū nō agerēt g'.a.nec
tūc a fortiori in me^m diffor' agerēt. Añs pȝ ꝑ ꝑdcā: q2 tūc
lumē eēt vnifor' diffor': vel ſaltē nō ad pūctū aliquē bēt
g^m itēſiorē q̄ȝ ſit g'.a.⁊ totū lumē eēt diffor'. ¶ Hec.n.cō-
firmaꝉ. Si lumē cōinteſuȝ agerēt a ppinq̄ ꝑcīſe ſic in re-
moto: g̊ pars remotior erit rarior pte ꝑpinquiori: dēr g̊ pun
ct' itrin^{cus}: tūc nō eſt aliqs g' raritatis q̊ me^m eēt vnifor' g^m
ad illū pūctū nō eēt g' agētis: ſȝ remiſſior g'.cū g̊ ad oēm
pūctū magis diſtātē eſt raritas maior q̄ȝ ad pūctū min' di-
ſtātē: g̊ nō eſt aliqs g' raritatis q̄ remiſſior iſto ſit per ptē
terminatā ad.a.Daꝉ g̊ pars in qua eſt maior dēſitas q̄ȝ ſic
dēſitas ad certū pūctū itrin^{us}. Et ſi totū me^m eēt vnifor' g'
raritatis illi pūcto corrīdēte totū eēt difforme nō bn̄s ad
pūctuȝ illū g^m lumis.a.g̊ nec tūnc a fortiori ad illū pūctū
ageꝉ gradus agētis. Seqꝉ g̊ q̄ ad nullū punctū diſtātē
ageꝉ g' agētis. Et ſic eſt finis tractat' huius de luminoſis.

¶ Tractatus 14^{9} De motu locali.

HIc incipiūt q̄dā regule de motu loca
li ſupponent' mo^m attēdi
penes ppor^{cs} geometricā. ¶ Prīa regl'a eſt h̄.
1^a reg^a Ubicūqȝ aliq̄ po^a creſcit re^a reſi^e nō variate tā-
tā ppor^{es} acqret re^a illi' reſi' ꝑ quātā ipſa fiet
maior vel ſub aliqs vbis, eadē ſnia remanēte tātā ppor^{es}
acqret re^a ſuiip̄i' q̄tā re^a ſue reſi'. Et voco illā ppor^{es} acqri
po' ſupra ſeipaȝ que eſt po' h̄nde in fine ad po^{m} nūc habi-
tā. h̄ ſic pȝ. Sit.a.illa po' creſcēs re^a.b.reſi'. ⁊ ſit.c.g' ſub q̊
nūc eſt.a.⁊ ar' ſic. In fine ppor^o.a.ad.b.cōponeꝉ ex ppor'
a.ad.c.⁊ ex ppor'.c.ad.b.cū g̊ ppor^o.c.ad.b.nūc ſola ſit ha-
bita iter.a.⁊.b.ſeqꝉ q̄.a.ppor^{es} acqret ſupra.b.illā q̄ erit
in fine.a.ad.c.⁊ iſtā ppor^{es}.a.ſupra ſeipaȝ vt ꝯſtat acqret.
2^a reg^a ſeqꝉ g̊ ꝯclō. ¶ Itē ſi aliq̄ po^a decreſcit re^a alicui' reſi' non
variate tātā ppor^{es} deꝑdet re^a illi' reſiſtēcie ꝑ q̄tā iſta po^a
3^a reg^a fiet minor. Hec per ꝑorēȝ demōſonē ſatis pȝ. ¶ Ubicūqȝ
aliq̄ reſi^a creſcit vl' decreſcit re^a po' nō variate, tātā ppor
tionē deꝑdet illa po^a vel acqret cuȝ i^a reſi^a: ꝑ q̄tā ppor^{es}
illa reſi^a fiet maior vl' minor. Hec pȝ pro p^a pte. Sit po^a il-
la.a.⁊.b.ſua reſi^a creſcēs ſit.c.g̊dus ſub quo erit in fine: tūc
ppor^o.a.ad.b.in p^{n°} cōponiꝉ ex ppor^{bus}.a.ad.c.⁊.c.ad.b.et
in fine ſolū remanebit ppor^o.a.ad.c.g̊ tota ppor^o que eſt.c.
ad.b.deꝑdeꝉ: ⁊ illā ppor^{es} acqret.b.ſupra ſeipaȝ.g̊ ſeqꝉ p^a
4^a reg^a pars. 2^a pars cōſilr' declaraꝉ. ¶ Ubicūqȝ aliq̄ po^a creſcat
vel decreſcit re^a duaȝ reſi^{ars} ſiue eq̄liū ſiue ineq̄liū nō va-
riataȝ eq̄uelo' itēdet vel remittet mo^m re^a vtriuſqȝ. Hec ꝑ
p^{as} ⁊ 2as ꝯnes addita ſuppo' p^a ꝯcludiꝉ euidētiſſime. eq̄lē-
cȝ ppor^{es} acqret vel deꝑdet re^a vtriuſqȝ quātā re^a ſuiip̄i'
5^a reg^a ⁊ mot' vl'r ſeqꝉ ꝑportionē. ideo ⁊c. ¶ Ubicūqȝ aliq̄ reſi^a
creſcat vel decreſcat re^a po^{ar} eq̄liū vel ineq̄liū nō varia-
taȝ eq̄lē ꝑportionē ille potētie deꝑdēt vel acqrēt: ⁊ eq̄ue-
lociter remittēt vel intēdent mot' ſuos cū illa reſi^a. Hec ꝑ
6^a reg^a ſuppōnes ⁊ 3as ꝯnes ſatis pȝ. ¶ Ubicūqȝ due po' ineq̄les
creſcūt vel decreſcūt equeuelo' re^a eiuſdē reſi' nō variate.
minor po^a veloci' itendet vel remittet motū cuȝ illa reſi^a
q̄ȝ po^a maior. Hec ꝑ p^{as} ⁊ 2as ꝯneȝ pbaꝉ: eo q̄ minor po^a ſu-
pra ſeipaȝ maiorē ꝑportiōeȝ acqret q̄ȝ maior: ⁊ eodeȝ mō
eſt de deꝑditiōe. ¶ Ubicūqȝ due reſi' ineq̄les creſcūt vel 7^a reg^a
decreſcūt eq̄uelo' re^a eiuſdē po' nō variate i^a po^a velocius
itendet vel remittet motū cū minori q̄ȝ cū maiori reſi^a. pȝ
ꝑ ꝯneȝ 3^{am}: eo q̄ minor reſi^a plus ppor^{is} ſibi acqret vl' deꝑ-
det q̄ȝ maior ⁊c. ¶ Ubicūqȝ due po' ineq̄les creſcūt vel 8^a reg^a
decreſcūt eq̄uelo' re^a duoȝ ſiue eq̄liū ſiue ineq̄liuȝ, minor
po^a velocius itendet vel remittet motū q̄ȝ maior: ſiue mo-
ueaꝉ cuȝ minori iſtaȝ reſi^{ar} ſiue cum maiori. Hec ꝯclō ex
4^a ⁊ 6^a ꝯnib' adducta ſuppōne p^a luculēte declaraꝉ. Sint eīȝ
a.b.po' ineq̄les.a.maior ⁊.b.minor: ⁊ creſcant eq̄uelo' re^a
c.d.reſi^{ar} nō variataȝ quecūqȝ ſit maior reſi^a nō eſt cura;
tūc per 4^{am}.a.eq̄uelo' itendet motū cū.c.ſic cuȝ.d.⁊.b.ſilr'
veloci' itendet cuȝ.c.q̄ȝ.a.cuȝ.d.per idē ar' q2.b.velocius
itēdet cuȝ.d.q̄ȝ.a.cū.c.g̊ ſequiꝉ ꝯclō. ¶ Ubicūqȝ due reſi' 9^a reg^a
ineq̄les eq̄uelo' creſcūt vel decreſcūt re^a duaȝ po^{ar} ſiue
eq̄liuȝ ſiue ineq̄liū po^a mouēs cuȝ reſi^a minori veloci' in-
tendet vel remittet motū q̄ȝ po^a mouēs cum reſi^a maiori.
Hec ex.6.⁊.7.demōſtrabiꝉ. ¶ Ubicūqȝ due potētie eque ꝑ- 10^a reg^a
portionabilr' creſcūt vel decreſcūt re^a eiuſdē reſiſtētie, ille
potētie cuȝ illa reſi^a eq̄uelo' remittēt ſeu itēdēt mot' ſuos
cuȝ illa reſi^a. Hec ꝯclō per p^{am} ⁊ 2^{am} regulā vna cuȝ ſuppō-
ne pȝ manifeſte: eo q̄ ille potētie ſupra ſeipas equales ꝑ-
portiones acqrūt ſiue ꝑdūt ꝑ ppor^{es} ſuīt maiores. ¶ Si 11^a reg^a
due reſiſtētie eque ppor' creſcūt vel decreſcūt re^a eiuſdē
potētie nō variate, illa cū iſtis duab' reſiſtētijs eq̄uelo' re-
mittet ſeu itēdet motū ſuuȝ. Hec per ſuppōnē ⁊ ꝯneȝ 3^{am}
demōſtraꝉ. ¶ Si due potētie eq̄les vel ineq̄les eque ppor' 12^a reg^a
creſcāt vel decreſcāt re^a duaȝ reſi^{ar} eq̄liuȝ ſiue ineq̄liuȝ
nō variataȝ, iſ' potētie eq̄uelo' cuȝ ſuis reſiſtētijs remittēt
mot' ſuos vel itendēt. Hec ex 4^a ꝯne ⁊.10.ꝯcludiꝉ. ¶ Si 13^a ȝ
2^e reſiſtētie eq̄les vel inequales eque ppor' creſcāt vel de-
creſcāt re^a duaȝ po^{ar} ineq̄liuȝ ſiue eq̄liuȝ nō variataȝ, il-
le potētie cuȝ illis reſiſtētijs eq̄uelo' remittēt ſeu itendēt
mot' ſuos. Hec ex.5.⁊.11.regulis demōſtraꝉ eſſe vera. ¶ Si 14^a reg^a
2^e potētie per eaȝ itenſionē vel remiſſionē equeuelo' cuȝ
eadē reſi^a vel cuȝ diuerſis itendāt vel remittāt mot' ſuos
ille potētie equeꝑpor' creſcēt vel decreſcēt. Hec eſt cō-
uerſa.12.re'. ¶ Si per cremēta reſi^{ar} vel decremēta ea- 15^a reg^a
rūdeȝ aliq̄ po^a vel aliq̄ potētie eq̄uelo' remittāt vel itēdāt
mot' ſuos, ille reſi' equeꝑpor' creſcēt vel decreſcēt. Hec
eſt ꝯuerſa.13.re'. ¶ Si po^a mouēs cum reſi^a vnifor' mo- 16^a reg^a
ueꝉ ⁊ reſi^a creſcit vel decreſcit, reqriꝉ q̄ po^a illa eq̄ꝑpor-
tionabilr' creſcat vel decreſcat cuȝ ſua reſi^a. Si.n.vnifor'
mouebiꝉ ꝯſeruabiꝉ eadē ppor^o po' ad re^{am}: g̊ in fine erit tā-
ta ppor^o potētie ad reſi^{as} h̄ndā quāta nunc eſt po^a habita
ad reſi^{am} habitaȝ: g̊ ꝑmutatim ſicut po^a in fine ſe hēbit ad
po^{as} nunc habitā, ita reſiſtētia ad reſi^{as}. ¶ Ex hac pȝ q̄ ſi 17^a reg^a
reſiſtētia creſcat vel decreſcat vnifor' manēte motu vni-
formi, po^a etiā ita vnifor' creſcet vel decreſcet. ¶ Et ſi re- 18^a reg
ſiſtētia difformiter creſcet vel decreſcet, po^a cōſilr' diffor-
miter creſcet vel decreſcet: q̄ ſeqꝉ ſatis pȝ. ¶ Si po^a cre- 19^a reg^a
ſcat vniformiter re^a reſiſtētie nō variate tardius ⁊ tardi'
itendeꝉ mot'. Et ſi po^a vnifor' decreſcat re^a reſiſtentie nō
variate veloci' ⁊ veloci' remitteꝉ mot'. Iſte re' per 6^{am} re-
gulā ſatis patēt. ¶ Si reſi^a vnifor' creſcat re^a alicui' po' 20^a reg^a
nō variate, iſta po^a ꝯtinue tardius ⁊ tardi' remittet motuȝ
ſuuȝ. ¶ Et ſi decreſcat vniformiter re^a potētie nō variate
illa po^a velocius ⁊ veloci' itendet motū ſuuȝ. Iſte per re^{as}
7as pbanꝉ. ¶ Si po^a tardi' ⁊ tardius creſcat re^a reſiſtētie 21^a reg^a
nō variate, po^a tardi' ⁊ tardi' itendet motū ſuuȝ cum illa
reſi^a. Et ſi veloci' ⁊ veloci' decreſcat, veloci' ⁊ velocius re-
mittet motū ſuuȝ. Iſta pȝ per 18as ⁊ 19as regulas per locū
a maiori.

22a reg. a maiori. ¶ Et ſi reſi. tardius et tardius creſcat re. iſtius
po. nõ variate: i. po. tardi. et tardi. remittet motũ ſuũ cum
illa reſi. Et ſi reſiſtẽtia veloci. et veloci. decreſcat re. ali
cui. po. nõ variate i. po. veloci. et veloci. cõtinue itendet
motũ ſuũ cum illa reſiſtẽtia. Iſte 2e per 18am et 20am p locum
a maiori ↄcludunt. ¶ Regule pdicte de potẽtijs ſimpli
cibus itelligunt. Si.n. idẽ me. creſcat eq̃uelo. re. mixti et
ſimplicis ſimplex veloci. remittet motũ ſuum q̃ mixtu: qz
tunc tota reſi. mixti capiẽdo itrinſecã eſt maior q̃ ſit reſi.
ſimplicis et eq̃uelo. creſcet cum.a. vt pz. g̃ per 7am re. ſim
plex velocius remittet motũ ſuum q̃ mixtũ. Cõſil̃r eſt de
decremẽto q ſi idẽ me. eq̃uelo. decreſcat re. po. ſimpli
5a re. cis et mixte ſimplex veloci. intendet motũ ſuum. ¶ Cõtra
5am regulam ſic arguit. Sit.a. po. vt octo et.b po. vt 4or et.c.
reſi. vt duo et.d. reſi. vt vnũ: et creſcãt.c.d. equeppor.c.ſ.
in duplo veloci.d. et creſcat vtrũq vnifor.: quo poſito.a.
ↄtinue eq̃uelo. mouebit cum.c. ſic.b. cum.d. qa ↄti. erit du
pla ppor.a. ad.b. et.c. etiã ad.d. g̃ pmutatim q̃ta erit ppor
tio.a. ad.c. tãta erit.b. ad.d. et ſic motus.b. cum.d. et.a. cum.c.
erunt eq̃les: et per ↄñs eq̃uelo. remittet.a. motũ ſuũ cum.c.
ſic.b. cum.d. ſz.b. veloci. remittet cum.c. q̃ cum.d. g̃.b. veloci.
remittet cum.c. q̃.a. cum.c. pz ↄña. Minor arguit ſic. ppor.
b. ad.c. eſt in duplo minor q̃ ppor.b. ad.d. et plus q̃ in du
plo citi. deperdet ppor.b. ad.c. q̃.b. ad.d. g̃.b. veloci. remit
tet cum.c. q̃ cum.d. ↄña pbat ſic. exq̃ ppor.b. ad.c. eſt in du
plo minor q̃ ppor.b. ad.d. Si in dup. minori tpe deperde
ret eq̃uelo. deperderet illa ppor. cum alia: g̃ ſi plus q̃ in du.
citi. deperdet: ſeqt q veloci. Et añs totũ pz: qa ppor.b. ad
c. deperdet cum.c. fuerit vt 4or: et ppor.b. ad.d. deperdet cum.d.
fuerit vt 4or: ſz plus q̃ in du. citi. fiet.c. vt.4or q̃.d. g̃ plus
q̃ in du. citi. deperdet ppor.b. ad.c. q̃.b. ad.d. Minor pz:
qa.c. in du. veloci. creſcet q̃.d. g̃ cum.c. acq̃ſierit binariũ.d.
acqret ſolũ vnitatẽ et poſtea in tãto tpe acqret vnitatem: qz
vnifor. creſcet: et.d. diſtat a ternario per 2m: g̃ in dup. citius
deueniet.c. ad 4or q̃.d. ad tria: et citius deueniet ad tria q̃
ad 4or. g̃ plus q̃ in du. citi. deueniet.c. ad 4or q̃.d. qd fuit
Ri. pbandum. ¶ Pro i. ↄcedẽda eſt regula. et pro argu. in oppo
p eſt nõn q ſi dup. et ſubdu. eq̃uelo. remittant: et vtrũq
ↄti. tardi. et tardi. totũ tps in quo deperdet du. erit plus q̃
du. ad tps in quo deperdet ſubdu.: qa deperdito ſubdu. de
perdet medietas dupli et poſtea tardi. remittet q̃ pus. g̃
poſt maius tps erit anteq̃ deperdat alia medietas illius q̃
pus: et p ↄñs totum tps erit plus q̃ du. etc. Sil̃r ſi duplũ et
ſubdu. eq̃uelo. remittant: et vtrũq ↄti. veloci. et veloci. to
tum tps in quo deperdet du. nõ erit in duplo mai. q̃ tps in
quo deperdet ſubdu. ¶ Per h ad argu. admittat caſus: et
negat q.b. veloci. remittet cum.c. q̃ cum.d. Et ad argu. qñ
arguit ppor.b. ad.c. eſt in duplo minor ppor.b. ad.d. et in
minori tpe q̃ ſubdup. deperdet. g̃ veloci. etc. nego ↄñtiã: qz
lz ſil̃r eq̃ueclociter remittet cum.c.d. qa tñ in vtroq tardius
et tardi. remittet vt p regulã. 20. ſatis pz: eo q vtraq reſi.
vniformiter creſcet poſtq̃ pportio.b. ad.c. fuerit deperdita
tardi. remittet ppor.d. q̃ pus in eodẽ vel cum.c. et ideo to
tum tps erit plus q̃ du.: vt per regulã penultimã ſatis pz.
23a ¶ Si aliq̃ po. incipiat moueri in extre. remiſſiori medij
vnifor. difformis et nõ variet in po. tardi. et tardi. creſcet
ſibi de reſiſtẽtia. nã tardius et tardi. ↄtinue mouebit et oẽs
ptẽ medij eq̃lẽ trãſeũdo: eq̃lẽ latitudinẽ reſiſtẽtie acqret:
qa olim prius eq̃liũ extrema itẽſiora equal̃r excedũt extre
ma remiſſiora earũdẽ prius vt ↄſtat: et oẽm ptẽ trãſeundo
acqret latitudinẽ illã ſolum ſm quã extre. itẽſius illi. ptis
excedit extre. remiſſius eiuſdẽ ptis: g̃ oẽs ptes eq̃les illi.
medij trãſeundo eq̃lẽ reſiſtẽtie latitudinẽ acqret: g̃ cũ tar
dius et tardi. ptrãſibit de ſpatio, tardi. et tardi. creſcet ſibi
reſiſtentia. Et ſi ecõtra moueat veloci. et veloci. decreſcet
ſibi de reſi. ¶ Si po. nõ variata incipiat mouere in ex 24a reg.
tremo remiſſiori medij vnifor. difformis, tardi. et tardius
ↄtinue remittet motũ ſuum. Et ecõtra mouẽdo velocius et
veloci. itẽdet. nã per. 23. ↄñem iſta po. tardi. acqret de reſi
ſtẽtia incipiẽdo in extre. remiſſiori. g̃ per p. ptẽ. 22. ↄñis
tardius et tardi. remittet motũ ſuũ. Scda pars pz per. 23.
incipiẽdo in extre. itẽſiori veloci. et veloci. decreſcet ſibi
reſi. g̃ per 2. ptẽ. 22. veloci. et veloci. ↄtinue itẽdet motũ.
¶ Ubicũq aliq̃ po. ptrãſibit medium vnifor. difforme 25a ↄ
nõ variata po. neq medio: maiorẽ latitudinem mot. dep
det vel acqret ptrãſeundo medie. remiſſiorẽ q̃ itẽſiorẽ:
qa pertrãſeũdo medie. remiſſiorẽ tãtã latitudinẽ mot.
deperdet po. ſm ppor., quanta eſt ppor. gradus medij ad
extre. remiſſius: ſicut per 3am regulã ſatis pz: et ptrãſeũdo
medie. itẽſiorem deperdet ppor. que eſt extremi itẽſioris
ad gm medium: ſz maior eſt ppor. gradus medij ad extre.
remiſſius q̃ extremi itẽſioris ad gm medium vt ↄſtat: eo q
ex eq̃li exceſſu inter minorẽ reſultat maior pportio q̃ ex
eq̃li inter maiora. ſeqt g̃ q iſta po. maiorẽ latitudinẽ dep
det trãſeundo medietatẽ remiſſiorem q̃ itenſiorẽ. ¶ Oẽs 26a ↄre.
po. ſimplices nõ variate idẽ medium difforme trãſeundo
nõ variatũ eq̃lẽ motum et pportionẽ eq̃lẽ acqrẽt vel dep
dẽt ptrãſeũdo illud qa per pmã: tãtã pportionẽ deperdet
quãta eſt extremi itẽſioris ad extre. remiſſius eiuſdẽ me
dij. ¶ Cõtra penultimã ſic arguit. Sint.a.b. po. eq̃les: et ↄ 25a re
ſit.c. me. vniformiter difforme: tñc.b. ad oẽm punctũ me gulam.
dietatis itẽſioris hz minorẽ ppor. q̃.a. ad punctũ corrñ
dẽtem medie. remiſſioris vt notum eſt: et ſic põt.b. augeri
q̃uſq ad oẽs punctũ illi. habuerit maiorẽ pportionẽ q̃.a.
ad pũctum corrñdẽtẽ medie. remiſſioris: ſz anteq̃ hebit
maiorẽ pportiões etc. hebit eq̃les ad oẽs punctũ medie.
itenſioris ſicut.a. ad punctũ corrñdẽtes medie. remiſſio
ris: g̃ ſic põt.b. augmẽtari q̃uſq ad oẽm punctũ medie.
itẽſioris habeat eq̃les pportiões ſic.a. ad punctũ corrñdẽ
tes medietatis remiſſioris: fiat g̃ hmõ augmẽtatio et capiat
inſtãs in quo.b. eſt ſic augmẽtatum: quo poſito ex quo.b. ad
oẽs pũctum medietatis itẽſioris tãtã hz pportionẽ ſicut.a.
ad oẽs pũctũ corrñdẽtẽ medietatis remiſſioris: ſeqt q.b.
ita velociter ↄti. mouebit in medietate itẽſiori: ſicut.a. in
medie. remiſſiori: et eq̃lẽ latitudinẽ mot. deperdet. Sz per
pmã re. a. ptrãſeũdo medietatẽ intẽſiorẽ tãtã latitudi
nẽ mot. deperdet ſicut.b. g̃.a. ptrãſeũdo medietatẽ itẽſiorem
tãtã latitudinẽ mot. deperdet ſicut ptrãſeũdo medietatẽ re
miſſiorẽ. g̃ illa re. nõ eſt vera. ¶ Pro iſto di re. eẽ verã:
et tñc ad ar. qñ ponit etc. admittit caſus vſq ad illud qñ
di ſit nc inſtãs in quo.b. eſt augmẽtatũ: ita q ad oĩa pũcta
medie. itẽſioris habeat eq̃lẽ pportionẽ ſicut.a. ad pũcta
corrñdẽtia medietatis remiſſioris. qd negat: qa ipoĩe eſt
q ſimul ad oẽs pũctũ medie. itẽſioris habeat.b. equalem
pportionẽ ſicut.a. ad pũctum corrñdẽtẽ medietatis remiſ
ſioris: qa ſi ad extre. remiſſius medietatis intẽſioris.b. ha
beat eq̃lem pportionẽ ſicut.a. ad extre. remiſſius remiſſio
ris medie.: cum extremi itẽſioris in medietate itẽſiori ad
extre. remiſſius medie. eiuſdẽ ſit minor pportio q̃ extre
mi itẽſioris medietatis remiſſioris ad extremũ remiſſius
eiuſdẽ: ſeqt q.b. ad extremũ itẽſius medie. itẽſioris ha
bebit maiorẽ pportionẽ q̃.a. ad extremũ itẽſius medieta
tis remiſſioris: eo q pportio.b. ad extre. remiſſius cõpo
nit ex ppor. illi. ad extremũ itẽſius medietatis itẽſioris
et ex ppor. extremi itẽſioris ad extremũ remiſſius: et ſic ẽ
de.a. ſicut ſi mediũ eẽt vniformiter difforme a 4to vſq ad
octo: et ſit.a. vt. 12. et habeat.b. equalẽ pportionẽ ad extre.
remiſſius medie. intẽſioris. ſ. triplã. Cum g̃ i. extremũ ſit
vt ſex, pz q.b. erit vt. 18. ſz pportio. 18. ad octo eſt maior
q̃ pportio. 12. ad ſex: qa pportio. 12. ad ſex eſt pciſe dupla

⁊ ꝓportio.18.ad octo eſt dupla ſeſquiquarta.¶ Et ideo eſt
tanq̄ re^a ſeruāda ꝙ ſi ſint 2^e latitudines eq̄les extēſiue et
ineq̄les intēſiue:⁊ aliq̄d ſe habeat ad extremuꝫ remiſſius
latitu^{nis} intēſionis ineq̄lis ꝓpor^e ſicut aliud ad extremū re
miſſius lati^{nis} remiſſionis:illud ꝓportionatū ad latitudinē
intēſioꝛeꝫ ad gradū īrīſecū habet maioꝛē ꝓportionē q̄
aliud ad gradū corrñdētē lati^{nis} remiſſioris:vt ꝑus arguit
de extremis illaꝝ medie^{tas}.Un̄ voco hꝰ latitudines extē
ſiue:quaꝝ extrema intēſioꝛa equal^r excedūt remiſſioꝛa:⁊
voco eq̄les intēſiue:quaꝝ extrema ⁊ oēs alij gradus cor
27ª reg^a rñdētes ſunt eq̄les.¶ Si reſi^a vniformiter ꝓpor^r creſcat
vel decreſcat re^a alicuiꝰ po^e nō variate illa po^a vniformi
ter remittet mo^m ſuū cum illa reſiſtētia vel intēdet ⁊ ecō
tra. Hec per 3^{am} re^{as} ſatis pꝫ:eo ꝙ ꝓportionabil^r ſicut eſt
maioꝛ ita velociꝰ creſcet: ⁊ per ꝯñs reſi^a illa vniformiter
acq̄ret ꝓportionē ſupra ſeipſaꝫ.ḡ per 3^{am} re^{as} illa po^a vni
formiter deꝑdet ꝓportionē cuꝫ illa reſi^a:⁊ per ꝯñs vnifoꝛ
3 reg^{as} miter remittet motū ſuuꝫ.¶ Cōtra 1° ſic obijcit̄ Ex 1^a ſe
quunt̄ 1^e ꝯnes ꝙ motꝰ.a.c.ab eodē gradu motꝰ incipiūt re
mitti ⁊ vniformiter remittent̄ ad nō gradū.eodē tꝑe:⁊ tñ
nō eideꝫ gradui corrñdebūt moꝰ eoꝝ.¶ Scđa ꝙ ante fi
nem hore.a.trāſibit.b.⁊ nō in hora illa trāſibit.b.¶ Ter
tia:po^a remittēs motū ſuū vniformiter ad nō gradū nō in
triplo plus ꝑtranſibit in ꝑ^a medietate tꝑis q̄ in 2^a.¶ 4^a:
a.remittet motuꝫ ſuū vniformiter ad nō gradū in.b.⁊ ad
nullū eius pūctū deueniet:ſic remittēdo motū ſuuꝫ ad nō
ꝑ^a ꝯ gradū.¶ Prima ſic arguit̄. Sit.d.vnū mediū vniforme
creſcens vniformiter ꝓpor^r:ita ꝙ tūc.c.po^a remittat mo^m
vniformiter ad nō gradū trāſeundo in hora totū.d.⁊ ma
neat.d.vniforme ⁊ non varie^r.c.po^a:⁊ ſit.a.po^a eq̄lis ⁊.b.
mediū ꝯſil^r diſpoſituꝫ ſicut.d.ſubduple tñ q̄titatis ad.d.
⁊ itendat̄ ꝯſil^r ſicut.d.⁊ maioꝛet̄ in q̄titate ad eq̄litatē.d.
vniformiter acq̄rendo quātitateꝫ per rarefactionē ſolū in
ꝑte nō ꝑtrāſita.aliter.n.ante finē hore eēt.b.ꝑtrāſitū ſicut
ſatis pꝫ:q2 citius q̄.d.eo ꝙ pars ꝑtrāſita rareficeret ⁊ ma
neat ꝯtinue.d.tātuꝫ ſicut nūc eſt:quo poſito ſeq̄t̄ ꝙ.a.c.ab
eodē gradu incipiūt remittere motꝰ ſuos ⁊ eq̄uelociter:eo
ꝙ po^e ꝯtinue erūt eq̄les ⁊ etiā ſue reſiſtētie:⁊ nō eidē gra
dui corrñdebūt ſui motꝰ:q2 mediātē motu.c.ꝑtrāſibit̄.d.
in hora:⁊ mediāte motu.a.nō ꝑtrāſibit̄ tātū in eadē hora:
q2.b.nō ꝑtrāſibit̄ per motū.a.qđ erit eq̄le illi.d.ꝑciſe:nec
aliqđ aliud equale.d.ꝑtrāſibit̄ ab.a.in illa hora. Iſta ſatis
patēt. Et añs arguit̄ ſic ꝙ nō ꝑtrāſibit̄.b.ab.a.q2 cum.a.
remittet motuꝫ ſuū ad nō gradū:aliq̄ñ mouebit̄ tardius
cuꝫ extremo motu ipiꝰ.b.ſiat eiꝫ rarefactio v̄ſus extremū
a quo diſtat.a.ſicut ſeq̄t̄.⁊ illud extremū ꝯtinue mouebit̄
vniformiter.cum ḡ in illo īſtāti in quo mouebit̄ eq̄ueloci
ter cum extremo.b.diſtabit ab illo extremo:⁊.a.ꝯti^e poſt
tale inſtās remittet motū illo extremo mouēte vniformi
ter:eo ꝙ acq̄ſitio q̄titatis eſt vniformis:ſeq̄t̄ ꝙ nunq̄ at
tinget illud extremū.b.manēte illa rarefactione:⁊ ſic ſeq
tur ꝙ nō ꝑtrāſibit totū nec tātuꝫ:ḡ motꝰ illius.a.gradui re
2^a ꝯ miſſiori corrñdebit q̄ motꝰ.c.ḡ ſeq̄t̄ ꝯcluſio.¶ 2ª ꝯcluſio
arguit̄ in eodē caſu:q2 2ª pars eſt arguta:⁊ ꝑ^a pars ſic ar
guit̄.Sit gr̄a exēpli.d.bipedale:⁊ etiā.b.pedale:tūc ſic ar
guit̄.c.vniformiter remittet mo^m ad nō gradū:ḡ in triplo
plus ꝑtranſibit in ꝑma medietate tꝑis q̄ in 2^a:vt ꝓbat̄ in
2ª ſuppōne ꝯnis.38.huius.cū ḡ in tota hora trāſibit bipe
dale:ſeq̄t̄ ꝙ in ꝑma medietate hore ꝑtrāſibit pedale ⁊ ſe
mipedale:⁊.a.per illā medie^{tas} hore mouebit̄ eq̄uelo^r cuꝫ
c.ḡ.a.in ꝑ^a medietate illius hore ꝑtrāſibit pedale ⁊ ſemipe
dale:⁊.b.in inſtāti medio illiꝰ hore erit ſolū pedale ⁊ ſemi
3^a ꝯ pedale:ḡ tūc.b.erit ꝑtrāſitū.ḡ ſeq̄t̄ 2^a ꝯcluſio.¶ Sꝫ 3^a ſic
arguit̄.b.in inſtāti medio nō erit ꝑtrāſitū:q2 per totā illā
horā rareſiet.b.ſm ꝑtē nō ꝑtrāſitā ſolū:⁊.b.in inſtāti me
dio erit ſolū pedale ⁊ ſemipedale:q2 acq̄ſitio q̄titatis erit
vniformis:⁊.a.eque ꝯti^e velociter mouebit̄ cuꝫ.c.ḡ a.c.nō
erit pedale ⁊ ſemipedale ꝑtrāſituꝫ:⁊ in tota hora.c.ꝑtrāſi
bit bipedale:ḡ nō in triplo plus in ꝑ^a medie^{te} q̄ in 2^a ꝑtrā
ſitur a.c.⁊.c.vnifoꝛ^r remittet motū ſuū ad nō g^m per caſuꝫ.
ḡ pꝫ ꝯcl'o.¶ 4^a ꝯcl'o ſic arguit̄.Si.b.vnifoꝛ^r rareſiet ad 4^a ꝯ
du^m ⁊ per totū tūc notū eſt ꝙ ante finē hore eēt totū.b.ab
eo.ſ.a.ꝑtrāſitū:eo ꝙ pars ꝑtrāſita rareſiet.ponat̄ ḡ ꝙ ra
refiat ſemꝑ per totū ⁊ rareſiat vlt^a du^m:ita ꝙ ante finē nō
erit.b.ꝑtrāſitū ab.a.⁊ ſic rarefactio vniformis ſm tꝑs ⁊
ſm ſubm:tūc ſeq̄t̄ ꝑ^a pars ꝙ.a.remittet motū ſuū vnifoꝛ^r
ad nō g^m in.b.eo ꝙ ꝯti^e mouebit̄ eq̄uelo^r cū.c.q2 po^e erūt
eq̄les ⁊ reſiſtētie equales.Et ꝙ ad nullū.b.veniet.a.ſic re
mittēdo motū arg^r ſic. Si ad aliquē deueniet ſit ille.f.tūc
capiat̄ inſtās tale in quo mouebit̄ eq̄uelociter cū.f.⁊ inci
piat tardiꝰ mouere tūc in iſto īſtāti.a.⁊.f.mouebunt̄ eq̄ue
lociter ⁊ ꝯti^e poſt tale inſtās.a.remittet motū ſuū:⁊.f.cōti
nue mouebit̄ vnifoꝛ^r.ḡ cū in illo inſtāti diſtabit ab.f.ſeq̄t̄
ꝙ mediāte illo motu nō attinget.f.⁊ ſic arguit̄ de.f.pūcto
ꝙ ad illū nō deueniet.a.remittēdo motū ſuum ad nō g^m.
ſic arguit̄ de oī alio pūcto.b.ḡ ſequit̄ ꝯcl'o.¶ Pro ꝑ^a ꝯne Ad ꝑ^{am}
dī ꝙ nō eſt poſſibile.b.rareſieri ad ſuū duplū ſm ꝑtē nō ꝯnem.
ꝑtrāſitā ſolā cuꝫ hoc ꝙ vniformis ſit acq̄ſitio q̄titatis:q2
tūc ſeq̄ret̄ ꝙ eēt totū ꝑtrāſitū vt argutū eſt ⁊ nō ꝑtrāſitū:
vt arguebat̄ in 2ª ꝯne ⁊ 3^a ⁊ prima.⁊ ideo negent̄ iſte tres
ꝯnes cuꝫ caſu:poſſibile eſt tñ ꝙ fiat rarefactio ſolū in ꝑte
nō ꝑtrāſita cuꝫ h̄ ꝙ tardioꝛ ⁊ tardioꝛ ſit acq̄ſitio q̄titatis:
⁊ tūc ſeq̄t̄ ꝙ acq̄ſitio q̄titatis ⁊ motꝰ extremi mo^i remittē
tur ad nō gradū:aliter nunq̄ eſſet.b.ꝑtrāſitū vt pōt argui
ſicut ꝑus argutū eſt.¶ Pro 4ª ꝯne negat̄ ⁊ admittat̄ ca Ad 4^{am}
ſus ⁊ admittat̄ gr̄a exēpli ꝙ ad.f.pūctum deueniet ſic re
mittēdo motū ad nō g^m:ſic.ſ.ꝙ quieſcit ſupra.b.cuꝫ deue
niat ad.f.⁊ ꝯcedit̄ ꝙ ante fineꝫ hore mouebit̄.a.eq̄uelo
citer cū.f.⁊ etiā tardiꝰ:tñ q̄ñ mouebit̄ eq̄uelociter cū.f.vel
tardiꝰ erit vltra.f.pūctuꝫ:⁊ tūc per motū velocioꝛē.f.pūctū
q̄.a.f.attinget.a.tñ ſi tūc eēt citra.f.nunq̄ deueniret ad.f.
vt argutuꝫ eſt.¶ Cōtra rñſionē ſic arguit̄.Si.a.ꝓcedet.f.
pūctū cuꝫ q̄libet pūctꝰ vltra.f.ꝯtinue mouebit̄ velocius.f.
acq̄rēdo de ſpatio fixo:ſeq̄t̄ ꝙ.a.q̄ñ erit vltra.f.velocius
acq̄rit.a.de ſpatio fixo q̄ pūctꝰ ſibi ime^{diate}:vel ſaltē nō tar
dius:q2 lꝫ nō hēt motū ꝓꝑuꝫ eq̄uelociter:tñ acq̄reret de
ſpatio fixo ſicut pūctꝰ ſibi imediatꝰ per motū lationis:ſed
motꝰ ꝓꝑus nō īpediet ipm ſꝫ potius iuuabit.ergo ſi.a.erit
vltra.f.velocius:tunc acq̄ret de ſpatio fixo q̄.f.⁊ per ꝯñs
nunq̄ poſt erūt.a.f.ad eūdē pūctuꝫ ſpatij fixi:⁊ ſi ſic nō ſe
tāgēt.¶ Ideo aliter dī ⁊ meliꝰ ꝙ.a.remittet motū ſuū ꝓ
priū ad nō g^m ⁊ nō totū eius mo^m:q2 ꝯti^e mouebit̄ velociꝰ
q̄ pūctꝰ imediatꝰ ſibi acq̄rēdo de ſpatio fixo ſibi corrñdē
te illi ſubito rarefacto:⁊ tūc q̄ñ ponit̄ ꝙ.f.ſit ille pūctus ad
quem ſic remittet motū ſuuꝫ admittat̄ . Et tūc q̄ñ arguit̄
aliq̄ñ mouebit̄ tardius.f.pūcto ⁊ diſtabit ab eo:⁊ cōtinue
poſt remittet motū ſuū.f.pūcto mouēte ꝯtinue vniformi
ter:ḡ nō attinget.f.punctū remittēdo motū ad nō gradū.
negat̄ ꝯñtia:q2 maioꝛ verificat̄ de motu ꝓꝑo illius: imo
bñ ſequit̄ ꝙ totꝰ motꝰ.a.erit velocioꝛ motu.f.pūcti:⁊ hoc
loquēdo de motu cōpoſito ex motu ꝓꝑo:⁊ motu queꝫ ha
bebit ex rarefactione ſubiecti. Exēplū eſt de hoīe mouēte in
naui tardius q̄ extremū nauis:⁊ ſequit̄ in caſu dato ꝙ ab
inſtāti dato plus ꝑtrāſibit̄ ab.f.pūcto q̄ motu ꝓꝑo ab.a.
⁊ ſic nō ſequit̄ ꝙ nō deueniet ad.f. Iſta mā̄ meliꝰ tractat̄
in de inductione gradus ſūmi.¶ Per latitudineꝫ altera 28^a reg^a
tionis nō variatā extēſaꝫ per mediū vniforme po^a nō va
riata in illo medio vniformiter remittet motū ſuū.hoc ſic
arguit̄.Sit.a.vna po^a ⁊.b.vnū mediū vniforme creſcens
vniformiter ꝓpor^r re^a.a.⁊ ſeq̄t̄ per ꝓximā ꝙ.a.vniformi
ter remittet

ter remittet motũ ſuũ. Sit ḡ.c.potẽtia eq̄lis.a.⁊.d.mediũ
vniforme ſicut.b.tũc ad oẽm pũctũ.b.velociꝰ ⁊ velociꝰ cre
ſcet reſiſtẽtia vt ꝯſtat:⁊ ꝗcũq; iſtãti dato erit.a.ad aliquem
pũctum.b.Ideo totalis intẽſio reſiſ.b.ab B iſtãti vſq; ad 1m
inſtãs gradui itrinſeco iter gm intẽſionis reſiſ nũc habitum ⁊
gm habitũ in fine.ſ.in iſtãti dato:vt ſic acq̄rit:corrñdebit.
ponat ḡ ꝙ ad punctũ corrñdẽtẽ.d.ſit ꝯti ille gradus acq̄
ſitionis reſiſtẽtie cui corrñdebit alteratio ad illũ pũctũ.b.
in tali tp̄e in quo.a.ad talẽ punctũ deueniet:⁊ ſic ponat de
oibꝰ alijs pũctis.d.b.corrñdentibꝰ:ita ꝙ q̄cũq; gradus ſit
cui corrñdebit intẽſio reſiſ ad punctũ aliquẽ.b.in tp̄e in ꝗ
a.ad iſtũ pũctũ deueniet ſit tãtꝰ gꝰ ꝯti ad pũctũ corrñdẽtẽ
d.tũc per.d.extẽdet latitudo acq̄ſitionis reſiſ:q2 ad quẽcũq;
pũctũ.b.ad quẽ.a.tardiꝰ deueniet corrñdebit alteratio gꝰ
ītẽſiori q̄ ad pũctũ ad quẽ citiꝰ deueniet vt notũ eſt:q2 ve
locior ⁊ velocior ꝯti erit illa acq̄ſitio reſiſ manẽs vniformis
quo ad ſubꝫ.Et ꝙ.c.vnifor remittet motũ ſuũ in.d.arꝰ ſic.
a.vniformiter remittet motũ ſuum in.b.⁊ eq̄velociter cõti
nue mouebit.c.in.d.ſicut.a.in.b.ḡ.c.vniformiter remittet
in.d.ꝯñtia cum maiori pꝫ.Et minor ſic arguit.ſi eīꝫ.a.ve
locius incipiat moueri q̄.c.ſeq̄t ꝙ imediate poſt B erit in
ſuo medio vltra pũctũ corrñdẽtem in.d.⁊ q̄ncũq;.a.erit ad
aliquẽ punctũ.b.erit reſiſtẽtia eq̄lis ad punctũ corrñdẽtẽ
d.⁊ ad oẽm citra minor erit:eo ꝙ reſiſtentiarum acq̄ſitiones
ad illa pũcta.d.⁊.b.pro illo tp̄e eidẽ gradui corrñdebũt:ḡ
ſequit ꝙ.c.imediate poſt B mouebit cum reſiſtẽtia mino
ri ⁊ cum potẽtia eq̄li:ḡ velocius.c.q̄.a.⁊ ꝑ ꝯñs nõ tardius.
Si tardius incipiat.a.moueri q̄.c.ſeq̄t ꝙ.c.incipiat eẽ in
d.vltra punctũ corrñdẽtem in.b.⁊ per ꝯñs incipit mouere
cum reſiſtẽtia maiori.Et ſi ſic tardius incipit.c.mouere q̄
a.⁊ per ꝯñs nõ velocius.ſeq̄t ḡ ꝙ.a.c.eq̄velociter incipiũt
mouere p̄ciſe.Et idẽ eſt argm pro omni iſtãti.Si eīꝫ.a.de
ſinit moueri eq̄velociter cum.c.ſignet illud inſtãs in quo deſi
nit moueri eq̄velociter mouebit cum.c.⁊ ſeq̄t tũc ꝙ eq̄ue
lociter moueant:q2 ſi.a.tũc velociꝰ mouebit vel tardius
ipſo.c.cũ neutrũ illorum aliquã latitudinẽ ſubito acq̄rat vel
deꝑdat:ſeq̄t ꝙ ante illud inſtãs mouebit velociꝰ vel tar
dius.⁊ ſic ſequit ꝙ tunc nõ deſinet moueri eq̄velociter cũ
c.p̄ciſe:ſequit ḡ ꝙ tũc mouebunt eq̄velociter.Fiet ḡ illud
argm qd̄ fiebat in p̄n°.ſ.ꝙ.a.tũc nõ incipiat moueri velociꝰ
vel tardius ipſo.c.ſeq̄t igit ꝙ.c.ꝯtinue mouebit eq̄velo
citer cũ.a.⁊.a.vniformiter remittet motũ ſuum per p̄mã
ꝯñẽ:ḡ ⁊.c.vniformiter tũc remittet motũ ſuũ:qd̄ fuit ꝓbã
3 ꝯñe. dum.¶ Cõtra illã ꝯñẽ ſic arguit.Ex 1a ſeq̄t ꝙ vbicũq; reſi
ſtẽtia creſcet vniformiter reſ alicuiꝰ po nõ variate,illa po
tẽtia īfinite tarde incipit remittẽ motũ ſuum:cuiꝰ oppoſitũ
pꝫ per.2o.reꝰ.vbi pꝫ ꝙ per vniforme cremẽtum reſiſtẽtie
p̄ma mouẽs cum 1a reſiſtẽtia ꝯtinue tardius ⁊ tardiꝰ remit
tet motũ ſuũ:⁊ per ꝯñs nõ in infim tarde incipit.Et ꝙ hec
ſequat ex ꝯñe tacta ſic arguit.ponat ꝙ.a.ſit potẽtia ſuffi
ciẽs mouere cum.b.medio vniformi ex certa ꝓpor:⁊ inci
piat.b.mediũ ītẽdi.c.gradu per totũ:⁊ ſic ꝑ totã horã intẽ
dat ſtãte.a.potẽtia nõ variata. Et arguit ꝙ.a.infim tarde
incipit remittẽ motũ ſuũ:q2 capiant īfinite potẽtie:quarum
q̄libet ſit eq̄lis.a.⁊ īfinite reſiſ:quarũ q̄libet ſit eq̄lis.b. Et
moueat p̄a po illarum cum p̄a illarum reſiſ ⁊ 2a cum 2a:⁊ ſic in
īfinitũ:⁊ incipiat latitudo intẽſionis terminata ad.c.in extre
mo remiſſiori:⁊ ad aliquẽ gm intẽſiorẽ in extremo ītẽſiori
extẽdi ſubito per p̄mã illarum reſiſtẽtiarum īfinitarum:⁊ ſic extẽ
dat per horã:⁊ ſic tñ intẽdat reſiſtẽtia illiꝰ ꝙ illa potẽtia
mouẽs cum illa reſiſtẽtia remittat motũ ſuũ per totã illam
horã ⁊ ꝯti vniformiter vt ꝓbatũ eſt in ꝯñe eẽ poſſibile:et
incipiat ſimiliter illa latitudo extẽdi per 2am illarum reſiſtẽtiarum:⁊
ſic extẽdat ſolũ per medietatem hore:ſic tñ ꝙ illa po remit
tat motũ vnifor ꝯti:⁊ per 3am incipiat extẽdi ſolũ per 4am
hore:⁊ ſic in īfim tũc.Et ꝙ q̄libet illarum po īfinitarum vnifor
miter ꝯti remittat motũ ſuũ pꝫ per caſum.Tũc ſic arguit.
īfim tarde incipit aliqd̄ illorum remittẽ motum ſuũ:⁊.a.tardiꝰ
q̄ aliqd̄ illorum.ḡ.a.īfim tarde incipit remittẽ motũ.ꝯña pꝫ:
⁊ maiorẽ ꝓbo:q2 ꝯti infim tarde remittet aliqd̄ ⁊ ꝯti vni
formiter remittet per caſum:ḡ īfim tarde incipit remittere.
Maiorẽ ꝓbo:q2 īfinitã modicã latitudinem motꝰ:ita ꝙ nõ ma
iorem deꝑdet aliqd̄ illorum.⁊ ſi aliquã deꝑderet in iſta hora
aliqualiter velociter deꝑderet.⁊ B ꝯti vnifor ſi in duplo mi
norẽ vnifor in duplo tardiꝰ:⁊ ſic in īfim:ḡ īfinitũ tarde re
mittet ꝯti cum ꝯti remittet vnifor īfinitã modicã latitu
dinẽ deꝑdẽdo aliqd̄ illorum.Añs ꝓbo:q2 cuiuſlibet potẽtia
ꝯti illorum erit tãta ſicut iam eſt:⁊ ſolũ per īfim modicũ erit
reſiſtẽtia alicuiꝰ iſtorum maior q̄ iam:ḡ īfinitũ modicũ motꝰ
deꝑdet aliqd̄ illorum.Añs ꝓbo:q2 capiat in fine vna poten
tia tanta ſic eſt aliqd̄ vel qd̄libet illorum que moueat tardiꝰ
q̄ aliqd̄ illorum in p̄n°:tũc ſua potẽtia eſt tãta ſic.a.⁊ mouet
tardius:ḡ ſua reſiſ eſt maior.b.⁊ per aliquẽ exceſſum exce
dit.b.⁊ q̄libet illarum reſiſ eſt eque itẽſa cum.b.⁊ ſolũ certe
velociter incipit q̄libet itẽdi:⁊ per īfim modicũ tp̄s itẽdet
aliqd̄:ḡ infinitã modicã latitudinẽ reſiſ acq̄ret aliqd̄ illorum
potentia ꝯti manẽte:⁊ nunq̄ aliqd̄ deꝑdet de motu niſi ꝑ
itẽſionẽ ſue reſiſ:ḡ īfinitã modicã latitudinẽ motꝰ deꝑdet
aliq̄ illarum potẽtiarum:ḡ īfim tarde incipit aliqd̄ illorum remit
tere motũ ſuũ.¶ Etiã poterit ꝓbari ꝙ q̄libet illarum potẽ
tiarum ita tarde incipit remittẽ ſicut aliq̄:q2 p̄m eq̄velociter
cum 2a ⁊ 2m eq̄velociter cum 3a:⁊ ſic in īfinitũ per oīa:q2 po
tẽtia p̄a eſt tãta ſicut 2a:⁊ reſiſtẽtia p̄mi eſt tãta ſic reſiſten
tia ſcd̄i:⁊ eadẽ latitudine motꝰ vel itẽſionis incipit reſiſtẽ
tia po p̄ itẽdi ſicut 2a.per caſum ḡ ita velociter incipit vna
reſiſtẽtia itẽdi ſicut alia ſtãtibꝰ potẽtijs:⁊ ſolũ incipiũt re
mittere motꝰ per itẽſionẽ reſiſtẽtie.ḡ ita tarde incipit pri
ma potẽtia remittẽ ſicut 2a ⁊ ſic de 3a:⁊ ſic in īfinitũ ⁊ infi
nite tarde aliq̄ potẽtia:ḡ infinite tarde q̄libet. Et ꝙ.a.tar
dius q̄ aliquã illarum ꝓbo:q2 oīa ab eque itẽſo gradu mo
tus incipiũt remittẽ ſicut.a.⁊ q̄libet illarum īfinitarum imedia
te poſt B mouebit tardius q̄.a.q2 in q̄cũq; inſtãti poſt B
a.mouebit cum reſiſtẽtia minori q̄ p̄m iſtorum īfinitorum pro
eodẽ iſtãti:ḡ velociꝰ.Añs ꝓbo:q2 p̄m mouebit cum reſiſtẽ
tia maiori.B arguit:q2 ad quẽcũq; punctũ itrinſecũ reſi
ſtẽtie p̄mi incipit eẽ reſiſtẽtia maior q̄ ad aliquẽ punctũ
b.q2 iam ad aliquẽ pũctũ vniꝰ eſt tãta reſiſtẽtia ſicut alte
riuſ:⁊ ad quẽcũq; pũctum.b.ſolũ incipiat eẽ itẽſio.c.gradu:⁊
ad quẽcũq; punctũ itrinſecũ p̄mi illorum incipit eẽ velocior
intẽſio:q2 illa latitudo incipit eẽ per p̄m illorum:cuiꝰ latitudi
nis nullus gradus itrinſecus eſt ita remiſſius ſic eſt.c.gra
dus:q2 terminat ad.c.in extremo remiſſiori:ḡ ad quem
cũq; pũctum itrinſecũ p̄mi incipit eẽ itẽſio gradu intẽſiori
q̄ ſit.c.gradus quo incipit.b.per totũ:⁊ ſic de 2a illarum reſi
ſtẽtiarum ⁊ ſic in īfim:⁊ per ꝯñs tardiꝰ incipit.a.remittere q̄
aliqd̄ illorum īfinitorum:ex q̄ oẽs iſte reſiſtẽtie a p̄n° ſunt eque
itẽſe:⁊ in īfinitũ tarde aliqd̄:ḡ in īfinitũ tarde.a.qd̄ fuit ꝓ
bãdũ.¶ Pro iſto dī ꝯcedendo ꝯñem:⁊ ꝯcedat ꝙ q̄libet illarum Reſ°
velociꝰ incipit remittẽ motũ ſuũ q̄.a.⁊ negat ꝯña. vlteriꝰ
q̄lꝫ illarum velociꝰ incipit remittẽ motũ ſuũ q̄.a.⁊ nũc īcipit
aliq̄ illarum īfinite tarde remittẽ motũ ſuũ:ḡ infinite tarde
incipit.a.remittere motũ ſuum:q2 hec oīa eq̄velociter inci
piũt remittere motꝰ ſuos:per nullum tñ tp̄s remittẽt oīa il
la īfinita eq̄velociter:ſꝫ imediate poſt B infinite tarde re
mittet aliqd̄ illorum:q2 caſus nõ dꝫ admitti de aliquo illorum
niſi pro tp̄e pro quo extẽdet illa latitudo intẽſionis ꝑ idẽ
mediũ.ſ.ꝙ remittat motum vniformiter:q2 capiat inſtãs
mediũ:q2 tũc erũt p̄m ⁊ 2m illorum mediorum īfinitorum ꝯſimiliter
oīno diſpoſita:eo ꝙ in p̄n° ſunt ſimilia.Et ꝯſimilis erit intenſio
reſiſtẽtie ad oẽm pũctum vnius ſicut ad pũctũ corrñdẽtem

alterius vſq; ad illud inſtās. Cum ḡ illa acquiſitio reſiſt. poſt inſtās mediū ſtabit in p. et nō in 2o: ſequit q in p tūc velocius incipiet remittere motū ſuū q̄ in 2o. Et ſi ſic cuʒ cōtinue ante illud inſtās equevelociter remittet mot. pmi ſicut ſcḋi: ſeqt q 2m nūc tardius incipiet remittere mom q̄ pm. Ideo 2m non remittet vnifor. niſi per medietatē tpis et per idez 3m niſi per 4am tpis et ſic deinceps: ideo ſubito remittet remiſſio mot. in aliq a gradu quo iam oia incipiūt remittere: et ſic in infinitū. Et ſic in tpe aliq qn ceſſabit intēſio reſiſtētie tardius remittet mot. q̄ nūc incipit mot. a. remitti in. b. vʒ. q imediate poſt tale inſtās: et ſic nō ſeqt q infinitū tarde incipit. a. remittē motū in. b. Si tn̄ nō deperderet ſubito aliqḋ illoꝝ tātā latitudinē remiſſionis mot. bn̄ teneret argm. Sʒ nūc vt dictū eſt ſubito remittet remiſſio in aliq in infinitū. Ideo nō ſeqt infinite tarde incipit aliqḋ eoꝝ remittē motū: et qḋlibet velocr. incipit q̄. a. ḡ infinituʒ tarde incipit. a. remittere. Exm huius. ſit. a. vnuʒ ſemipedale manēs nec augmētatū nec diminutū: et ſint infinita pedalia: quoꝝ pm diminuat vnifor. ad nō quātū in hora: et 2m in medietate hore terminata ad B inſtās et 3m in 4a hore: et ſic in infinitū: tūc qḋlibet illoꝝ imediate poſt hoc erit maius ipſo. a. vt cōſtat: q: per infinitū modicū diſtabit qḋlibet illoꝝ imediate poſt B a pedali: et tn̄ imediate poſt B infinitū modicū erit aliqḋ illoꝝ: eo q ſubito diminuet aliqḋ illoꝝ ad nō quātū: et tūc ex B nō ſequit q infinite modicū imediate poſt B erit. a. qa nunq̄ erit minus ſemipedali: vt ponit in caſu. Dic tn̄ per logicā pōt dici q nūc incipit infinitū modicū eē aliqḋ illoꝝ. Et pōt negari 1m: infinitū modicū incipit eē aliqḋ illoꝝ: qa qn̄ 2o termini exponibiles ponunt in aliq ppoſitione: p exponet pmus terminus: et deide ſcḋs: ſicut in iſta, ois hō incipit currere, p fiet deſcenſus ad ſingulares huius termini hō: et in ſingularib. fiet expoſitio hui. termini incipit. ſic in pppoſito p exponet ille terminus infinitū modicū: et poſtea ille terminus incipit. Hoc ḡ infinitū modicū incipit aliqḋ iſtoꝝ eſſe ſic exponit. minus q̄ tātū incipit aliqḋ illoꝝ eē demōſtrato aliquo certo quātō: et ſic deinceps. qḋ nō videt veꝝ: qa nō modicū minus pedali incipit aliqḋ illoꝝ eſſe. Si. n. hec eēt vera. modicū minus pedali incipit aliqḋ illoꝝ eē, cuʒ ſit indefinita pro aliq ſingulari verificaret vt pro minori pedali. cōńs falſuʒ vt pʒ intuenti: eo q nulla eſt quātitas minor pedali ſub qua imediate poſt B erit pm nec 2m: et ſic de alijs. Et ſic de iſtis infinitis dī remittētib. mot.: et de. a. remittēte motuʒ in. b. per

29a reg. vniforme cremētū: et ſic nō pcedit argm. Iam arguit q ita mediū pōt eſſe difformatū in latitudine reſiſtētie q potētia nō variata pōt vnifor. remittere motū ſuuʒ ad nō gradū et etiā ad gm. 2a pars imediate ſequit ex pa. hec cōcluſio ſic arguit. Ponat in caſu pmo q. a. ſit potētia applicata. b. medio vniformi et creſcat. b. mediū vniformiter ppor. ad eqlitateʒ. a. et ſequit per penultimā q. a. vniformiter remittet motū ſuuʒ ad nō gm: tūc ſit. c. tāta potentia ſicut. a. et. d. mediuʒ eqle ipi. b. et ſic maneat ad oēm pūctū. d. tāta reſiſtētia ſicut erit ad punctū corrńdētē in. b. cuʒ. a. ad talē punctū. b. deuenerit vt ſit nunc: et cōtinue erit tāta reſiſtētia ad punctū mediuʒ. d. ſicut erit ad punctū medij b. cuʒ. a. fuerit ibi: quo poſito ſeqt q mediū. d. erit mediū difformatū in quo remittet. c. motū ſuuʒ vnifor. ad nō gm. qḋ pbat. a. eiʒ remittet mom vnifor. ad nō gm in. b. et motus. c. in. d. ſemp erit eqlis motui. a. in. b. ḡ. c. remittet vniformiter in. d. Minor ar. Si eiʒ. a. incipiat veloci. moueri q̄. c. ſeqt q. a. incipit eē ad aliquē punctū. b. et. c. ad punctū citra punctū corrńdētē in. d. et per cōńs per caſum: ſeqt q. c. incipit mouere cū reſiſt. minori: et ſi ſic nō tardi. a. imo veloci. cū po. cōtinue erūt eqles. ſi tardi. incipiat. a. moueri q̄. c. ḡ incipit eē ad aliquē punctū. b. et. c. ad pūctuʒ vlteriorē in. d. et ſic ſeqt q. c. incipit mouere cū reſiſt. maiori q̄. a. et p cōńs nō veloci. ſʒ tardi. Idē eſt arm pro oi inſtāti. ſ. q pro nullo inſtāti incipiat. a. moueri veloci. nec tardi.: tūc. n. erūt ad pūcta corrńdētia. ḡ cōcluſio. Si aliq po. nō varia- 30a reg.
ta in medio difformi remittat mom vnifor. ad nō gm vl ad gm, nulla po. maior nec minor non variata pōt vnifor. remittere motū ſuū idē mēm trāſeundo. Pro cui. pbōne quedā ſunt ſupponēda. Primū eſt. oēs po. nō variate idē mēm trāſeundo difforme eqlē latitudinē mot. acqrunt vel deperdūt: vt p 26am cōńe ſatis pʒ. 2m eſt. ois latitudo mot. vnifor. acquiſita vel deperdita ſuo gradui medio corrńdet. B demſrat p ſic. tunc voco latitudinē vt acqrit corrńdē gradui medio: ſic q tātuʒ ptrāſiret pciſe mediāte illa latitudine ſic acqſita ſicut mediāte gu medio eiuſdē ſi per totū tps illo gu medio moueret. Sʒ p arg. q oē cōpom ex duob. inequalib. eſt duplū ad mēm inter illa: ſic cōpom ex octo et 4or eſt duplū ad ſex. nā ſi nō: ponat q. a. ſit mai. b. et ſit. c. mediū īter illa et diminuat. a. ad. c. et maioret. b. equevelo. verſus. c. tunc in fine cōpom ex. a. et. b. erit dupluʒ ad. c. eo q. a. b. inter ſe tunc erūt eqlia: ſʒ cōpom ex. a. b. cōtinue erit tātuʒ ſic in fine: qa quātuʒ vnū acqret tātuʒ aliud deperdet: ḡ cōpom ex. a. b. nunc eſt duplū ad. c. qḋ fuit pbandm. Tūc ar. illa ſuppoſitio 2a ſic. p acqrat. a. aliquā latitudinē vnifor. terminatā in extremo intēſiori ad. c. gm: et deperdat. b. eādē latitudinē cōſilr oino ſic. a. acqrit illā: et ſit. e. gradus medi. illi. latitudis ſiue latitudo terminet ad gm ſiue ad nō gm nō eſt cura: tunc a. b. mot. cōtinue equalebunt gradui duplo ad. e. eo q gradus cōpoſit. ex duob. gradib. ineqlib. ſp eſt duplus ad mēm inter illos: et. e. ſemp erit medi. īter. a. b. qn̄ erunt ineqles: et illa duo cōiūcta cōtinue eidē gradui corrńdebūt: eo q vnus equevelo. intēdet ſic alius remittet. ḡ cōtinue corrńdebunt gdui duplo ad. e. et vnus eidē gradui corrńdebit ſicut ali.: ḡ illa duo gradui in duplo intēſiori corrńdebūt q̄ vnus eoꝝ per ſe: ḡ motus vtrinſq; per ſe. e. gradui in totali tpe corrńdebit. qḋ fuit pbandm. cōńa tenet. Nā moueat. d. gu duplo ad. e. et ſeqt q. a. b. ptrāſibit tātuʒ ſicut. d. et vnū tātū ptrāſibit ſicut aliud. ḡ vnus ptrāſibit in duplo min. q̄. d. et p cōńs tātū ſicut ſi moueret. e. gu ſubduplo ad gm quo mouebit. d. qui gus eſt medi. latitudinis acqrēde. ḡ ſeqt ſuppoſitio. 2o ſic. moueat aliqd gu vniformi vt 4or. cum ḡ ibi ſint due latitudines vnifor. difformes a 4or vſq; ad non gm. vbi ḡ erit vniformis acqſitio vni. latitudinis et vniformis deperditio alteri. et mediātib. iſtis duab. ptrāſibit tātū quātuʒ mediāte gu vt 4or in illo tpe: qa ex illis duab. reſultabūt 4or. ḡ vterq; p ſe gdui vt 2o corrńdebit: qa illi duo mot. gradui in duplo intēſiori q̄ vnus illoꝝ p ſe. 3o arg. idē: et p arg. q q̄cūq; po. a nō gu vnifor. intēdit motū ſuū in triplo plus ptrāſibit in 2a medietate tpis q̄ in pa. ponat eiʒ q. a. remittat mom ſuū vnifor. ad nō gm: tunc in oi inſtāti pe ptis pporlis in duplo veloci. mouebit q̄ in inſtāti corrńdēte 2e ptis pporlis et ſic deinceps: vt pʒ. ḡ cuʒ pa pars pporlis tpis ſit dupla ad 2am pʒ q in q̄druplo plus ptrāſibit in pa parte pportionali q̄ in 2a: et in q̄druplo plus in 2a q̄ in 3a: et ſic in infinitū. ḡ in oibus ptib. in q̄druplo plus q̄ in reſiduis ptib. a pa. cōńa tenet per B: ſi alique q̄titates ad alias cōparent in eadeʒ ppor. ſicut vnū illoꝝ ſe habet ad ſui cōparatū ita aggregatū ex oib. cōparatis ſe habet ad oia ad que ſit cōparatio. ſequit ḡ q in toto tpe in q̄druplo plus ptrāſibit q̄ in 2a medietate: et per cōńs in pa medietate in triplo plus ptrāſibit q̄ in 2a: vbi. ſ. eſt vniformis remiſſio ad nō gradū. ḡ ecōuerſo intēdendo in triplo plus ptrāſibit in 2a medietate q̄ in pa. Ex illo arguit intētuʒ. Intēdat eiʒ. a. vniformiter a nō gradu vſq; ad octo: tunc ſi mot. in pa medietate corrńdebit gradui remiſſiori q̄ 2o ſit ille gradus. d. et ſit gdus cui corrńdebit mot. ei. in 2a medietate. c. tūc ex quo mot. eque

velociter

Margin notes, right column: beside "queda ſunt ſupponēda": pm ſupp. — beside "deperdūt": 2m — beside "ſitio 2a ſic": Q latitudo vniformiter difformis corrńdet gradui medio. — beside "medi. latitudinis": 2a — beside "intēſiori q̄ vnus illoꝝ p ſe": 3a

uelociter intēdet̃ in ſcḋa medietate ſicut in p° ⁊ in inſtanti medio hēbit q̃tuor: ſeq̄t̃ φ.c.equalr diſtat a q̃tuor ſicut.d. a non gᵒ ⁊ ſex equalr diſtat a.c. ſicut 2° a.d. igit̃ ſex equalr diſtat a duob⁹ ſicut.c.a.d. ġ cū ſit tripla ꝑpor° ſex ad 2m: ⁊ gradus.c. eſt remiſſior ſex: pꝫ φ inter.c.a. eſt maior q̄ tripla ꝑportio: ⁊ per ↄ̄ns plus q̄ triplū ꝑtranſibit in 2° medietate q̄ in p°. ↄ̄ns eſt iꝑbatū. Et φ ſequat̃.c. eq̄lr excedere.d. ſicut ſex 2m: pꝫ per hoc φ ſi ſint quatuor termini quoꝝ prim⁹ ⁊ maxim⁹ equalr excedat 2m ſicut terti⁹ 4m: ⁊ p̄m⁹ equalr excedit 3m ſicut ſcḋs 4m: vt ſint.a.b.c.d. q̃tuor termini: ita φ.a. ſit maxim⁹ eq̄lr excedens.b. ſic.c.d. minimus: tūc diſtātia inter.a.c. eſt maior diſtātia inter.a.b. ſolū per diſtātiam inter.b.c. ⁊ exceſſus.b. ſupra.d. eſt maior q̄ exceſſus.c. ſupra.d. ſolū ꝑ latm inter.b.c. cū ġ inter.a.b. ⁊.c.d. eſt diſtātia eq̄lis: pꝫ φ iter.a.c. ⁊.b.d. eſt diſtātia eq̄lis: qḋ eſt ꝓbādū. Si ġ motus in p° medietate gradui remiſſiori me° corrīdebit: pꝫ φ mot⁹ in 2° medietate plus q̄ in triplo intēſiori gradui corrīdebit q̄ in p°. ↄ̄ns eſt fl'ꝫ ⁊ iꝑbatū. Si mot⁹ gradui intēſiori me° corrīdebit: ſeq̄t̃ φ cū mot⁹ in ſcḋa medietate eq̄lr excedit motū in p° medietate ſicut ſex excedūt duo φ mot⁹ in 2° medietate non foret triplus ad mom in p°. ↄ̄ns eſt fl'm per ꝑargu. Pꝫ ġ φ mot⁹ in p° medietate corrīdebit gradui vt 2°: ⁊ in ſcḋa gradui vt ſex: ⁊ ſic ar' de oī latne ad nō gm terminata. Jdeꝫ ſequit̃ ſi intēdat a g° q̄ acq̄ret latnem de nouo a nō g° que corrīdet ſuo ġdui me° ⁊ excedit gm a quo intēdat ꝑ latm iſtā de nouo acq̄ſitā ⁊ g° medius inter gm in p̄n° hitu ⁊ gm in fine hādū eſt intēſior illo g° nūc hito per mediū totius latis de nouo acq̄rēde: ġ ſicut illa de nouo acq̄ſita corrīdet me° gradui: ita iſta cū toto motu ꝓhabito ſuo ġdui me-

4° dio corrīdet: qḋ fuit ꝓbādū. ⸿ Quarto ſic. Jntendat.a. motū ſuū vnifor̃ per aliquā latnem cui⁹ ġdus medi⁹ ſit.c. quē vel ſibi ſil'eꝫ hēbit in inſtāti me°: ⁊ ponat̃ φ in inſtāti medio ſit.b. mo° ſub.c.g° ⁊ remittat̃ per ſcḋaꝫ me^{as} eque' ſicut.a. intēdet̃ per p̄mā vel per ſcḋaꝫ ad graduꝫ queꝫ in p̄n° hꝫ.a. vt ſeq̄t ex ꝑpoſitis: quo poſito arguit̃ ſic.a.b. motib⁹ ſimul in ſcḋa medietate tpis in duplo plus ꝑtranſibit̃ q̄ in eadeꝫ medietate tpis mediāte.c. gradu: ⁊ in du° plus ꝑtranſibit̃ a.c. in toto tpe q̄ in medietate eiuſdē tpis: ergo tantū ꝑtrāſibit̃ a.b. motib⁹ in ſcḋa medietate tpis q̄tū in toto tpe me^c.c. gradu. ↄ̄ña ⁊ minor patēt de ſe: ⁊ maior ar' ſic. Jn inſtāti medio erūt.a.b. mot⁹ eq̄les.c. ⁊ eq̄ue' ꝯti' intēdet̃.a. mot⁹ per caſum: ſicut.b. remittet̃: ergo.c. ↄ̄tinue erit g° medi⁹ inter.a.b. Et ſi ſic motus cōpoſitus ex.a.b. cōtinue erit duplus ad.c. eo φ oē cōpoſitū ex duob⁹ ieq̄lib⁹ dupluꝫ eſt ad mem inter illa: vt in p̄mo arg° hui⁹ arguꝫ eſt. Sequit̃ ġ φ mediātib⁹.a.b. motib⁹ in ſcḋa medietate tpis dupluꝫ ꝑtrāſibit̃ q̄ mediāte.c. gm: ⁊ tantū ſicut in toto tpe per.c. gm: ſꝫ tantū ꝑtranſibit̃ in toto tpe ꝑ.a. ſicut per.a. b. in medietate 2° tpis: eo φ.a. in p° medietate tpis tantuꝫ ꝑtrāſibit ſic̄ ipm.b. in 2° medietate tpis: ⁊ in iſta 2° medietate tpis nō plus ꝑtrāſibit.a.b. q̄.a. ſoluꝫ niſi ꝑ idem qḋ.b. tūc trāſibit. pꝫ ġ φ ꝑ.a. in toto tpe ꝑtrāſibit̃ tātū ſic̄ in ipo c. gm: ⁊.c. eſt g° medi⁹ latis acq̄rēde ꝑ.a. motū: ſeq̄t̃ ġ ↄ̄clo.

3m ſupm ⸿ Ex iſto ſeq̄t̃ aliḋ φ vbicūq3 aliq̄d vnifor̃ remittit motuꝫ tāta eſt ꝑpor° ꝑtrāſiti in p° medietate tpis ad ꝑtrāſitū in ſcḋa, q̄ta eſt ꝑpor° g° medij medietate intēſioris illius latis iter terminū a quo remittit̃ mot⁹ ⁊ terminū ad quē: ad gm mediū medietatis remiſſioris eiuſdem latis: eo φ motus gradib⁹ medijs illaꝝ medietatū latis in iſtis me-

4 dietatib⁹ tpis corrīdēt. ⸿ Quartū ꝑſuppoſitū eſt φ oīuꝫ duaꝝ latitudinū equaliū extēſiue ⁊ inequē intēſaꝝ maior eſt ꝑportio g° medij medietatis intēſioris in latie remiſſiori ad gm mediū medietatis remiſſioris eiuſdeꝫ latis q̄ erit ꝑpor° graduū medioꝝ medietatū latis intēſioris. Et voco latis eq̄les extēſiue q̄ñ extrema remiſſiora illaꝝ latitudinū ab extremis intēſioib⁹ eq̄lr excedunt̃ ſicut ſunt ille lates ab octo vſq3 ad ſex: ⁊ a q̃tuor vſq3 ad duo. Hec ſuppō pꝫ: eo φ ġdus medij medietatū intēſiſſimaꝝ illaꝝ latis eq̄lr excedūt g° medios medietatū remiſſiſſimarū: ⁊ vl'r ex eq̄li exceſſu iter minora reſultabit maior ꝑpor° q̄ inter maiora: pꝫ ġ ſuppō. ⸿ Ex his faciliime demonſtrat̃ ↄ̄clo. Et p̄mo arguit̃ φ ſi vna remittit vnifor̃ φ nulla maior ⁊c. q̄ ſi ſic: ſit.b. idē mediū ⁊ remittat.a. vnifor̃ ſiue ad gm ſiue ad nō gm non eſt cura. Et ſit.c. po° vna maior que vnifor̃ remittat motū ſuū ſi ſit poſſe: ⁊ arguit̃ φ nō: q̄.a. in certa ꝑportiōe plus ꝑtranſibit in p° medietate tpis q̄ in ſcḋa ſit φ in.f. ꝑportione plus: ⁊ ponat̃ φ in inſtāti medio erit ad.g. punctū: ergo tūc.c. remittet mom a gradu intēſiori: eo φ veloci⁹ incipit mouere q̄.a. q̄ cū po° maiori: ⁊ per equaleꝫ latem remittet ſicut.a. vt per p̄mā ſuppōneꝫ ſatis pꝫ: ġ nō in.f. ꝑporne plus ꝑtranſibit.c. in p° medietate tpis q̄ in ſcḋa. ↄ̄ns iuxta tertiā ⁊ q̃rtā ſuppōnes ſatis pꝫ: ⁊ per ↄ̄ns in inſtāti medio nō deueniet.c. ad.g. punctuꝫ. Sed cū c. deueniret ad.g. punctū erit medietas ſue latitudinis deperdita vt notū eſt iuxta p̄mā ſuppōneꝫ: eo φ medietas motus deperdendi ab.a. tūc deperdet̃: ġ ſeq̄t̃ φ in inſtāti medio medietas motus deꝑdendi a.c. nō deꝑdet̃: ⁊ ꝑ ↄ̄ns nō vnifor̃ remittet motū ſuū: qḋ fuit ꝓbādū. Nec aliqua minor potētia: q̄ ſi ſic ſit illa.d. ⁊ arguit̃ ſic.d. remittet motum ſuū vnifor̃: ġ nulla maior.d. remittet motum ſuum vnifor̃ illud mediū tranſeūdo. ↄ̄ña iuxta ꝓbatū nūc vltio ſatis pꝫ: ſed ↄ̄ns eſt falſuꝫ ⁊ ↄ̄ caſuꝫ: q̄ ex caſu ſequit̃ φ.a. remittet motū ſuū vnifor̃.b. mediū trāſeūdo. Pro vtraq3

31° reg° ergo ꝑte iſta ↄ̄clo declarat̃. ⸿ Si aliq̄ po° in medio difformi remittat motū ſuū vnifor̃ ad nō gradū: oīs potētia maior in infinitū velociter remittit motuꝫ ad extremū intenſius deueniēdo. remittat.n.a. motū ſuū vniformiter ad nō gradū in.b. medio difformi: ⁊ ſit.c. vna po° maior quecūq3 fuerit nō eſt cura. Et arguit̃ ſic. Ex quo.a. per cremētum reſiſtētie vnifor̃ remittet motū ſuū: ſeq̄t̃ φ velocius ⁊ veloci⁹ creſcet ſibi reſi°. ↄ̄ña pꝫ per ↄ̄neꝫ 25am ⁊ ēt ꝑ 15as. Cū ġ.a. in infim tarde mouebit̃ acq̄rens ſibi reſiſtentiā ꝑ motū: ſeq̄tur φ ifinite tarde mouēdo certe velociter acq̄ret de reſi°. Cū ġ.c. po° ibi.ſ. ad extremū intēſius certe velociter mouebit̃: ſeq̄t̃ φ.c. ad illud extremū ifine velociter acq̄ret de reſiſtētia: ſicut.n. mot⁹ ad motū ad eundeꝫ punctū ⁊ eiuſdeꝫ medij: ita cremētū reſiſtētie ad cremētū reſiſtentie. Seq̄t̃ ġ φ.c. ad extremū intēſius deueniēdo ifim velociter acq̄ret ſibi de reſi° ſtāte po°: ġ infim velociter remittet motū ad illud extremū deueniēdo: eo φ reſi° infim ꝑpor̃ creſcet. Et ideꝫ eſt argm de oī alia po° maiori.a. ergo

32° reg° ſeq̄t̃ ↄ̄clo. ⸿ Si aliqua po° in medio difformi vnifor̃ remittet motū ſuū ad nō gm: oīs po° minor in illo medio mouendo in infim tarde remittet motū: q̄ ſi nō ſit.a. remittēs motū vnifor̃ ad non gm in.b. medio: ⁊ ſit.c. po° minor.a. ⁊ ſeq̄t̃ φ.c. ad certū punctū intrinſecū hꝫ ꝑpornem eq̄litatis: qui punct⁹ ſit.d. tunc.a. ad punctū.d. ⁊ imediate añ.d. certe velociter mouebit̃: ⁊ finite velociter per motū illuꝫ acq̄ret de reſi°: eo φ vnifor̃ remittet. cū ġ.c. deueniēdo ad.d. punctū infinite tarde mouebit̃: ſequit̃ φ deueniēdo ad.d. punctuꝫ infinite tarde acq̄ret.c. de reſi°: ⁊ ita de oī alia po° minori eſt arguēduꝫ: igit̃ ſequit̃ ↄ̄clo.

Jam reſtat inquirere nūquid ſi vna po° remittat vnifor̃ motū ſuum ad nō gm in medio difformi aliqua po° maior vel minor per ſui variationem poterit remittere motū ſuū ↄ̄tinue vnifor̃ totū illud mem tranſeūdo. Pro quo quatuor ꝓbant̃ ↄ̄nes. ⸿ Prima vbi po° in me° difformi remittit mom ſuū vnifor̃ ad nō ġduꝫ po° maior per ↄ̄tinuā intenſionē potentie vnifor̃ poterit

[Right margin notes:] Latitudo equalis extēſiue. — p° ↄ̄ ⁊ ē reg° 33°

2.reª34 cōtinue remittere motū totū mediū.d.trāſeūdo.¶ Scḋa
vbi poª per mem difforme vnifor remittit motū ſuuz ad
nō gm poª maior per cōtinuā remiſſionē illius poe vnifor
poterit totū mediū tranſeūdo remittere motū ſuū:ſed hoc
3.reª.35. nō pōt eē niſi remittēdo ad nō gm.¶ Tertia vbi poª aliq̄
remittit motū vnifor ad nō gm in medio difformi poª mi
nor per ꝯtinuā intēſionē poe pōt remittere motū ſuū vnir
totū mediū trāſeundo:ꝛ hoc remittēdo motū ad gradum.
4.reª36 ¶ Quarta vbi vna poª ꝛc.poª minor per ꝯtinuā ciꝰ inten
ſionē ad nō gm vnifor poterit remittere motū totū mediū
ꝯ pmaz trāſeūdo:ſed per remiſſionē poe nequaq̄. ¶ Cōtra pmā:
ꝯnem ſi aliqua poª per ꝯtinuā intēſionē tranſibit illud mem que
poª tūc eſt maior poª remittēte mom vnifor ad nō gm in
iſto medio:ſequit̄ ꝙ in fine ibi erit ēt maior:ſ3 per penul
timā vbicūq3 aliq̄ poª remittit motū ſuū ad nō gm vnifor
in medio hꝫ ois maior infim velor remittet ad extrem intē
ſius deueniēdo:ḡ illa poª maior data infinite velor remit
tet motū ſuū anteq̄ ad illud extremū deueniat:ꝛ per ꝯñs
Suppō nō ꝯtie vnir remittet mom ſuū: qḋ fuit ꝓbāduz. ¶ Et ꝙ ꝯ
ꝛ eſt re ſit vā ar.Et pro ciꝰ ꝓbatiōe ſuppōat̄ ꝙ vbicūq3 poª nō va
gula.37 riata in meº hꝫ difformi remittet mom ſuū ad oēm ptē ma
gis reſiſtentē trāſeūdo maiorē latinem morꝰ depdet vl acq
ret q̄ ptranſeundo ptē equalez minꝰ reſiſtentē. hoc ſic pz.
Exquo illa poª in illo medio vnifor remittet:ſeq̄t ꝙ in oi
pte tpis eq̄li eq̄lez latinem depdet:ꝛ ad cuiuſcūq3 ptis per
tranſitionē magis reſiſtētis maius tps reqrit̄ q̄ ad ptran
ſitionē ptis eq̄lis minꝰ reſiſtētis:ḡ oēm talez ptē magis re
ſiſtentē ptrāſeūdo maiorē latinem depdet q̄ ptrāſeūdo ptē
eq̄lez minꝰ reſiſtentez.Ex iſto ꝓbat̄ ꝯ. Et ponat̄.b.remit
tere mom ſuū in.c.vnifor a ꝓporne duª vſq3 ad nō gm:ꝛ ſit
a.poª dupla ad.b.ꝛ ponat̄.a.ſic variari in poª:q̄ñcunq3.b.
deueniet ad aliquē punctū.c.ꝙ ad pūctū in duplo plus di
ſtantē ab extremo remiſſiori hēat.a.in duplo maiorem ꝓ
portionē q̄.b.ad pūctū iſtū ad quē tūc erit.Caſus eſt poſ
ſibilis:eo ꝙ ad vnū punctū pro quoli3 inſtanti in quacūq3
ꝓporne volueris poterit ſe hēe vt ſatis ꝯſtat intuēti:quo po
ſito.a.ꝯtie in duº velociꝰ mouebit̄ q̄.b.ꝛ per ꝯñs in duplo
velociꝰ remittet q̄.b.ꝯñs pz:ꝛ añs ꝓbo.Et pmo ar ꝙ per
nullu3 tps terminatū ad hoc inſtās.a.nō plus q̄ in duplo
velociꝰ.b.nec tardiꝰ q̄ in duº velociꝰ.b.mouebit̄:q̄ ſi ve
locius q̄ in duº velociꝰ:ḡ erit vltra punctū in duº plus di
ſtantē ab extremo q̄ diſtat punctꝰ ad quē erit.b. ꝛ ad talē
punctū in duº plus diſtātez ꝛc.hēbit.a.in duplo maiorem
ꝓportionē q̄.b.ad punctū ad quē tūc erit: ꝛ ad oēm vltra
minorē ꝓportionē q̄ ad iſtū:ḡ ſi.a.erit vltra pūctū in duº
plus diſtātē tardiꝰ q̄ in duº velociꝰ mouebit̄.a.q̄.b.ꝛ per
ꝯñs nō plus q̄ in duº velociꝰ mouebit̄.a.q̄.b.nec tardius:
q̄ tūc erit citra pūctū in duº plus diſtantē:ꝛ per ꝯñs plus
q̄ in duº velociꝰ mouebit̄:ḡ nō tardius q̄ in duº velocius
mouebit̄.a.q̄.b.nec velociꝰ per arm:ḡ pciſe in duº velociꝰ
incipit mouere.¶ Conſilr ar ꝙ per nullu3 tps poſt h in
ſtans plus q̄ in duº velociꝰ mouebit̄:q̄ ſi ſic capiat̄ illud
inſtās in quo icipiet plus q̄ in duº velociꝰ mouere: ꝛ ſeq̄t
ꝙ in illo inſtanti in duº velocius mouebit̄: ꝛ per ꝯñs tunc
erit.a.ad punctū in duº plus diſtantē q̄.b.ḡ ſi poſt illḋ in
ſtans imediate plus q̄ in duº velociꝰ mouebit̄ plus q̄ du
plu3 ſpatiū ptranſibit:ḡ per plus q̄ per duplū diſtabit ab
extremo.c.q̄.b.ḡ tardius q̄ in duº velociꝰ mouebit̄: ḡ nō
plus q̄ in duº velociꝰ mouebit̄.Si tardiꝰ q̄ in duº moue
bit̄:tūc.a.q̄.b.imete poſt illud inſtās per minꝰ q̄ per dum
diſtabit.a.ab extremo.c.remiſſiori q̄ diſtabit.b.ꝛ per ꝯñs
plus q̄ in duº velociꝰ mouebit̄.a.q̄.b.imediate poſt illud
inſtās:ḡ nō minus q̄ in duº tardius tunc mouebit̄.a.q̄.b.
nec velocius per argm:ergo pciſe in duplo velocius.Et per
ꝯñs ſequit̄ ꝙ.a.cōtinue in duplo velocius mouebit̄ q̄.b.
ꝛ per ꝯñs in duplo velociꝰ remittet: ꝛ ſic ſequit̄ ꝙ vnifor
remittet̄.a.ꝛ pertranſita medietate.c.a.b.erit.a. ad extrem
c.eo ꝙ in duplo velociꝰ mouebit̄:ḡ ptrāſeūdo totum.c.re
mittet.a.motū ſuū vnir ad gm per illā variationē poe.Et ꝙ
a.poª ꝯtinue intēdet̄ ꝓbat̄ ſic. Oēm ptez terminatā v ſus
extremū intēſius ptrāſeundo.b.plus q̄ in duplo maiorez
latitudinē depdet q̄ ptranſeundo ptez ſubduplaz verſus
extremū remiſſiꝰ:q̄.b. in oi pte tpis eq̄li eq̄lez latitudinē
depdet ꝛ tardius ꝛ tardiꝰ mouebit̄ :ḡ in oi pte verſus ex
tremū intēſius maiorez latinem depdet q̄ in pte eq̄li extreº
remiſſiori ꝓpinquiori.Cum ḡ.a.ꝯtinue erit ꝓpinquiꝰ extreº
intēſiori q̄.b.ꝛ ptranſibit ꝯtinue duplu3 ſpatiū ad ſpatiuz
ptrāſitū.a.b.ḡ ſi ſtaret in poª vel remitteret̄ plus q̄ in duº
maiorē latitudinē depdet.a.q̄.b.ſed nc pciſe oēm partem
trāſeūdo in duº maiorē latinem depdet q̄.b. ptrāſeūdo ptē
ſubduplaz quā ptrāſibit in eq̄li tpe ſicut.a.ſemp duplam:
pz ꝙ.a. ꝯtinue intēdet̄ in poª:ḡ pz totū añs pme ꝯñe:ex q̄
ſequit̄ ꝯclō.¶ Ex iſto ſatis pz ꝙ ſi aliq̄ poª ſicut.b. remit 38ª regª
tet mom ſuū vnifor ad nō gm ſi poª maior pª incipiat intē
di:ꝛ per variationē ſue poe vnifor remittat motū ſuū:illa
poª ꝯtinue intēdet̄:q̄ ad oēm punctū intrinſecū velocius
remittet motū q̄ ad extrem remiſſius ipſa ſtāte. ꝙ ſic pz:
q̄ ad oēm punctū intrinſecū in maiori ꝓporne velociꝰ mo
uet̄ ipſo.b.q̄ ad extremū remiſſius vt ſatis pz:eo ꝙ ꝓpor
tio.b.ad oēm punctū intrinſecū eſt minor q̄ ad extrem ꝛ.a.
poª per eq̄lez ꝓportionē excedit.b.ad oēm pūctū ſicut ad
extremū:ꝛ ꝓpor ſicut.a.ad aliquē punctū mouebit̄ velo
cius.b.in ea ꝓportiōe velociꝰ remittet motū q̄.b.ſi ꝯtinue
eſſet ad eundē punctū vt pz: vel ſaltē in nulla ꝓporne tar
dius ꝛ.b.ad oēm punctū equeuer remittet ſicut ad aliquē:
ergo ſi.a.ſtaret in maiori ꝓportiōe velociꝰ remitteret ipſo
b.q̄ nūc incipit. Sed ſi aliq̄ñ incipiet.a. poª maiorari:tūc
erit maioris potētie q̄ prius:ꝛ per ꝯñs ſi ſtaret velociꝰ re
mitteret motū q̄ in pnº:ꝛ ſi remittat̄ velocius remitteret
motū q̄ ſi ſtaret:ḡ ſi pciſe equeuer remittet ſicut in pnº in
cipit:ſequit̄ ꝙ in oi inſtāti itrinſeco intēdat̄ in poª. ¶ Si 39ª
tū in medio difformi in quo poª remittet motū vnifor ad
nō gm non variata incipiet poª maior remitti ꝛ ꝯtinue re
mittet motū ſuū vnifor totū mem ptranſeundo nō reqrit̄
ꝙ iſta poª ꝯtinue remittat̄.hoc ſic pz.Sit.c.mediū vt pus
ꝛ ponat̄.b.ad punctū mediū: ꝛ ſit.a. vna poª que in q̄druº
velociꝰ ſufficiat mouere cū extreº remiſſiori q̄.b. cū pun
cto medio: ꝛ pz ꝙ.a.poª eſt maior.b. q̄ exquo.b. remittet
motū vnifor ad nō gradu3 in.c.medio ipm trāſeūdo:ſeq̄t
ꝙ in pma medietate tpis pertrāſibit tres q̄rtas:vt argutū
eſt in argumēto tertio ſcḋe ſuppōnis 30e ꝯnis:ꝛ per ꝯñs in
duplo velociꝰ preciſe ſufficit mouere ad extremu3 remiſ
ſius q̄ ad punctū terminantē eius tres quartas.cum ergo
ad punctum medium eſt reſiſtentia minor q̄ ad pūctum
terminantem tres quartas:ſequitur ꝙ.b .nō in duplo ve
locius ſufficit mouere cum extremo remiſſiori q̄ cu3 me
dio puncto:ꝛ.a.in quadruplo velocius ſufficit mouere ad
extremum remiſſius q̄.b. ad punctum medium : ergo.a.
potētia eſt maior.b.ponat̄ ergo ꝙ q̄ñcunq3.b.deſtiterit a
puncto medio.c.ꝙ.a. ꝓtūc habebit ꝓportionē in quadru
plo maiorez ad punctū in quadruplo plus diſtantē ab ex
tremo remiſſiori q̄ eſt ꝓportio ex qua tunc mouebit̄.b.ꝛ
ſequit̄ ꝙ.a.cōtinue mouebit̄ in quadruplo velocius.b.vt
pargutū eſt.Quia ſi mouebit̄ tardius q̄ in q̄druplo velo
cius tūc erit citra punctū in q̄druplo plus diſtantē ab ex
tremo remiſſiori q̄ diſtabit.b.tunc a pūcto meº:ꝛ ad pun
ctū in q̄druplo ꝛc.mouebit̄ in q̄druº velociꝰ q̄.b.ad pun
ctū ad quē tūc erit ꝛ ad oēm citra velociꝰ q̄ in q̄druº velo
cius:ḡ ſeq̄t ꝙ tūc mouebit̄ plus q̄ in quadruplo velociꝰ:
ḡ nō tardiꝰ q̄ in q̄druº velociꝰ.Si velocius q̄ in q̄druplo

velocius:ſequitur ꝙ plus ꝙ̃ per quadruplum diſtabit ab
extremo ꝙ̃.b.a puncto medio:ꝛ per ꝯñs mouebit̃ tardius
ꝙ̃ in quadruplo velocius. pꝫ ğ ꝙ nõ põt mouere plus ꝙ̃
in quadruplo velociꝰ nec tardiꝰ ꝙ̃ in q̃druplo velociꝰ.b.ꝛ
per ꝯñs mouebit̃ ꝯtinue in q̃druꝰ velociꝰ.b.ꝛ.b. remittet
motū ſuū vniᶠ:ğ.a.vniforᶠ remittet: qꝛ in q̃druplo velociꝰ
b.eo ꝙ inter oēm gᵐ ꝛ ſuū quadruᵐ eſt in q̃druplo maioꝛ
latiᵗᵒ ꝙ̃ inter ipm ꝛ ſubq̃druᵐ ſuū:vt ſatis cõſtat cuilꝫ in-
tuenti.Et ꝙ.a.icipiat remitti in poᵃ ꝛ per tp̄s remittet̃ pꝫ:
qa ſemꝑ ptrãſibit ꝑtē q̃druplaꝫ ꝛ minꝰ reſiſtenteꝫ qñ.b.
ptrãſibit ꝑtē ſubquadruplaꝫ magis reſiſtentē:ğ per.37.
ſi ſtaret in poᵃ ꝛ trãſiret illaꝫ partē q̃druplaꝫ minꝰ reſiſtē-
tem qñ.b.ptrãſiret ꝑtē ſubq̃druplaꝫ magis reſiſtentē non
in q̃druplo maiorē latiᵗᵘᵈⁱⁿᵉᵐ moꝰ deꝑdet ptrãſeūdo illã ꝑtē
q̃druplaꝫ ꝙ̃.b.ptrãſeūdo partē ſubq̃druplaꝫ magis reſi-
ſtentē:ꝛ ſi intēdat̃ in poᵃ minꝰ deꝑdet de latitudīe motus
ꝙ̃ ſi ſtaret in poᵃ:eo ꝙ intēſio poᵉ ipedit remiſſionē moꝰ:
ſeq̄t̃ ğ cū.a.ptrãſeundo ꝑtē q̃druplaꝫ minꝰ reſiſtentem in
q̃druplo maiorē latiᵗᵘᵈⁱⁿᵉᵐ deꝑdet ꝙ̃.b. ptranſeūdo ꝑtē illaꝫ
ſubq̃druplaꝫ magis reſiſtentē.pꝫ ꝙ.a.remittet̃ in poᵃ. Et
ꝙ aliqñ intēdet̃ in poᵃ ſic arḡ.a.ꝯtinue in q̃druplo velo-
cius mouebit̃ ꝙ̃.b.ꝛ per duplū plus ꝑciſe diſtat.a.ab ex-
tremo intēſiori.c.ꝙ̃.b.diſtet ab eodeꝫ extremo: ğ citꝰ de-
ueniet ad extremū intēſius.c.ꝙ̃.b.ad illud:ꝛ per ꝯñs.a.mo-
uebit̃ aliqñ cū reſiᵃ maiori ꝙ̃.b.ꝛ ſemꝑ ptrãſibit ꝑtē qua-
druplaꝫ.c.qñ.b.ptranſibit ſubquadruplaꝫ ꝑtē eiuſdē:igit̃
aliqñ ptrãſibit ꝑtē q̃druplaꝫ magis reſiſtentē qñ.b.ptran-
ſibit ꝑtē ſubquadruplaꝫ minꝰ reſiſtentē: ꝛ ſemꝑ in equali
tp̄e deꝑdet ꝓpoꝛᵗⁱᵒⁿᵉꝫ q̃druplam qñ aliud deꝑdet ſubq̃dru-
Ad arᵐ plaꝫ:ğ per penultimā.a.intēdet̃ in poᵃ:ğ ſequit̃ ꝯ. ¶ Pro
ꝯ 33ᵘᵐ quo dr̄ ꝯcedendo ꝯnes.33.37.38.39. ꝛ ad arᵐ in oppoſitū
cõcedit̃ totū vſqꝫ ibi cū dr̄.ſi vna remittat vniforᶠ oīs ma-
ior in infiᵗᵒ velociter remittet:que ēt ꝯcedit̃ ſi illa poᵃ non
variet̃. Sꝫ ſic põt illa poᵃ intēdi ꝙ nõ remittet motū ſuū
aliquo mõ vt cõſtat:qꝛ ſemꝑ põt ſe hr̄e in eq̄li ꝓportione
ad punctū ad quē erit ſicut in p̄nᵒ ſe hꝫ ad extremū remiſ-
ſius vt pꝫ:ꝛ ideo nõ ſequit̃.a.ad extremū intēſius infinitū
velociter acgret de reſiᵃ:ğ infiᵗᵉ velociter motū ſuū remit-
tet ad illud extremū deueniēdo:qꝛ ſicut infiᵗᵉ velociter cre-
ſcet.a.reſiſtētia:ita infinite veloᶜ creſcet.a.in poᵃ: ꝛ ſic non
ꝓcedit argᵐ:tñ ſi poᵃ tūc nõ intēderet̃:vel ſolū finite velo-
citer intēderet̃ in tp̄e illo.a.tūc infiᵗᵉ veloᶜ remittet motum
ſuū:qꝛ tūc īfinite velociꝰ ꝓpoꝛᶜ creſcet ſua reſiᵃ ꝙ̃ ſua poᵃ:
ideo īfinite veloᶜ minoraret̃ ꝓpoꝛᵒ poᵉ ſupra reſiſtētiā ꝛc̄.
ꝯ 34ᵘᵐ ¶ Concl'oni 34ᵉ.ſ.ꝙ vbi poᵃ per meᵐ difforme ꝛc̄.maioꝛ
regᵘᵐ q̃ poᵃ per ꝯtinuā remiſſionē ſue poᵉ põt vniᶠ remittere moᵐ
eſt 2ᵃ ꝯ. ſuū ſic obijcit̃:Si ſic:ſit.c.id mediū ꝛ.b.vniforᶠ remittēs ꝛ
a.maioꝛ ꝯtinue que remittat̃ ꝛc̄. Cõtra. vel.a.remittat ad
gᵐ vel ad nõ gᵐ:ſiue ſic ſiue nõ:ſequit̃ ꝙ īmediate ante fi-
nem tp̄is erit maioꝛ.b.ꝛ oīs poᵃ maioꝛ nõ variata in infiᵗᵘᵐ
veloᶜ remittet moᵐ ſuū deueniēdo ad extremū intēſius:ğ
a.imediate ante finē ſi ſtaret ifiᵗᵉ veloᶜ remittet moᵐ ſuū.
ſed ſi remittet̃ in poᵃ velociꝰ remittet moᵐ ꝙ̃ ſi ſtaret: eo
ꝙ remiſſio poᵉ iuuat ad remiſſionē moꝰ. Si ergo.a.ime-
diate ante finē remittet̃ ꝛ erit maioꝛ.b.ſeq̄t̃ ꝙ infinite ve-
lociter remittat moᵐ:ꝛ per ꝯñs nõ ꝯtiᵉ vniforᶠ. ¶ Hoc cõ-
firmat̃ ſic:ponat̃ ꝙ q̃ñcūqꝫ.a.deueniet ad aliquē pūctuꝫ
c.ſit ꝓñc ad eundē punctū poᵃ tūc eq̄lis.a. que nõ variet̃
tūc ex quo quelꝫ illaꝝ potētiaꝝ eſt maioꝛ.b. ſeq̄t̃ ꝙ quelꝫ
illaꝝ deueniēdo ad extremū intēſius infiᵗᵉ veloᶜ remittet
moᵐ ſuū:ꝛ.a.ꝯtinue velociꝰ remittet ꝙ̃ poᵃ ſibi īmediata:
eo ꝙ.a.erit ſibi eq̄lis ꝛ remittet̃:ꝛ per infiᵗᵘᵐ modicū diſta-
bit aliq̄ illaꝝ ab extremo intenſiori.c.cū.a.fuerit ſibi īme-
diatū:ğ infinite velociter aliqñ remittet moᵐ ſuū: ꝛ ꝑ ꝯñs
nõ ꝯtinue vniforᶠ. ¶ Cꝫ tñ illa ꝯcl'o ſit vera arᶠ ſic.Sit.c.
mediū difforme vt prius in quo.b. remittet moᵐ ſuū vniᶠ
ad nõ gᵐ:ꝛ ponat̃.b.ad punctū mediū:ꝛ ſit.a.vna poᵃ que
ſe hēat ad extremū remiſſiꝰ in duꝰ maiori ꝓpoꝛᵗⁱᵒⁿᵉ ꝙ̃.b.ad
punctū mediū:ꝛ ſeq̄t̃ ꝙ.a. poᵃ eſt maioꝛ.b. qꝛ per 38ᵘᵐ.b.
nõ in duꝰ velociꝰ ſufficit mouere cū extremo remiſſiori ꝙ̃
ipmmet cū puncto medio:ꝛ.a.in duꝰ velociꝰ ſufficit mouē
cū extremo remiſſiori ꝙ̃.b.cūꝫ puncto medio: ğ.a.poᵃ eſt
maioꝛ.b.variet̃ ğ ſic ꝙ q̃ñcūqꝫ.b.deſtiterit a puncto meᵒ:
ꝛ fuerit ad aliū punctū verſus extremū intēſius ꝙ.a.ꝓñc
ad punctū in duplo plus diſtanteꝫ ab extremo remiſſiori
ſe hēat in duꝰ maiori ꝓpoꝛᵗⁱᵒⁿᵉ ꝙ̃ erit ꝓpoꝛᵒ ex qua mouebit̃
b.ad punctū ad quē tūc erit.Et ſeq̄t̃ ꝙ.a. vniforᶠ remittet
motū ſuū:qꝛ ꝯtiᵉ mouebit̃ in duꝰ velociꝰ.b.vt in ꝯcluſione
ꝓxima arguebat̃:ꝛ totū meᵐ trãſibit qñ.b.ptranſibit me-
dietatē intēſiorē.Et per ꝯñs plus ꝯtinue diſtabit ab extreᵒ
intēſiori ꝙ̃.b.ergo ſemꝑ ptrãſibit ꝑtē duplaꝫ minꝰ reſiſtē-
tem qñ.b.ptranſibit ꝑtē ſubduplaꝫ magis reſiſtēteꝫ:ğ ad
hoc ꝙ in duꝰ maiorē latiᵗᵘᵈⁱⁿᵉᵐ deꝑdat.a. ptrãſeundo iſtã ꝑtē
duplaꝫ minꝰ reſiſtentē ꝙ̃.b.ptrãſeundo ꝑtē ſubduplã ma-
gis reſiſtētē:regrit̃ ꝙ.a.minoret̃ in poᵃ:vt in ꝯne ꝓxia ſuffi-
cienter eſt arguītū de ꝓportiõe q̃drupla ꝛc̄. ¶ Seq̄t̃ igit̃
ꝯcl'o.ſ.ꝙ.a.vniforᶠ remittet moᵐ ſuū totū mediū trãſeūdo
per ꝯtinuā remiſſionē poᵉ. ¶ Ideo dr̄ ꝯcedendo ꝯnem:ꝛ Ad arᵐ
ad arᵐ in oppoᵐ dr̄ ꝙ ſi.a.imediate ante finē foret in aliq̄ ꝯ ꝯnem
ꝓpoꝛᵗⁱᵒⁿᵉ certa maioꝛ.b.ꝛ ſic remitteret̃ in poᵃ infinite velo-
remitteret moᵐ ſuū:ſed qꝛ in nulla ꝓpoꝛᵗⁱᵒⁿᵉ erit.a.maioꝛ.b.
īmeᵗᵉ ante finē:ideo argᵐ nõ ꝓcedit de.a.Sed ſatis bñ cõ-
cludit̃ ꝙ.a.nõ põt vniforᶠ remittere moᵐ ſoluꝫ ad gᵐ per
cõtinuā remiſſionē poᵉ ſicut dr̄ in fine eiuſdeꝫ ꝯnis: qn tñ
poterit ad nõ gᵐ vniᶠ remittere motū ſuū in nullo ꝯcludit
argᵐ. ¶ Et ad ꝯfirmationē de iſtis infinitis dr̄ ꝙ q̃ñcūqꝫ
a.erit īmediatū alicui illaꝝ potētiaꝝ:tūc ſoluꝫ finite veloᶜ
remittet hꝰ poᵃ.Sed qñ vlteriꝰ dr̄ per infiᵗᵘᵐ modicū diſta-
bit aliqua illaꝝ ab extremo dum.a.ſibi fuerit īmediatū:ğ
infinite veloᶜ remittet poᵃ īmediata ipſi qñ.a.ſibi īmedia-
tuꝫ erit.negat̃ ꝯña:qꝛ nulla illaꝝ certa eſt poᵃ que īmedia-
te ante finē erit cū.a. Unñ lꝫ oīs poᵃ maioꝛ.b.deueniēdo ad
extremū intēſius infinite veloᶜ remittet moᵐ:nõ tñ īfinite
velociter remitteret oīs maioꝛ:qꝛ per infiᵗᵘᵐ modicū aliqua
maioꝛ.b.excedit ipm.b.vt ꝯſtat. Et ideo nõ ſeq̄t̃ ꝙ īfinite
veloᶜ remittet.a.motū ſuū ad extremū intēſius deueniēdo:
ꝛ ſic nõ ꝓcedit argᵐ. ¶ Cõcl'oni 35ᵉ obijcit̃ ſicut 33ᵉ.Si.n. ꝯ ꝯnem
remittat.a.ad graduꝫ ꝛc̄.erit maioꝛ.b. ꝛ per ꝯñs īfinite ve- 35ᵃᵐ.
lociter remittet motū ſuū īmediate ante finē:ꝛ per ꝯñs nõ
cõtinue vniforᶠ remittet motuꝫ ſuū. ¶ Sed ꝙ ꝯcl'o ſit vera
arguit̃ ſic.Sit.c.mediū difforme vt prius in quo.b.remit-
tat motū ſuū vniforᶠ ad nõ graduꝫ:ꝛ ponat̃ ad extremum
remiſſius:ꝛ ſit.a.poᵃ applicita puncto terminãti quartã in-
tenſiſſimã.c. in extreᵒ remiſſiori ꝛ ſufficiat.b. in triplo ve-
locius mouere ad extremū remiſſius ꝙ̃.a. ad pūctū datū:
ꝛ ſequit̃ ꝙ.a. poᵃ eſt minoꝛ.b.qa.b. in duplo velociꝰ ꝑciſe
ſufficit mouere ad extremū remiſſius ꝙ̃ ad punctū termi-
nantē quartã eiꝰ intenſiſſimã:vt in ꝯne.38.eſt arguītū:ꝛ.b.
in triplo velociꝰ ſufficit mouere ad extremū remiſſiꝰ totiꝰ
ꝙ̃.a.ad extremū quarte intēſiſſime.c. in extreᵒ remiſſiori:
ergo.b.potētia eſt maioꝛ.a.moueatur ergo vtrūqꝫ verſus
extremū intenſius:ꝛ ponat̃ ꝙ q̃ñcūqꝫ fuerit.b.ad aliqueꝫ
punctū diſtantē ab extremo remiſſiori totius ꝙ ꝓñc.a.
ad punctū in triplo minꝰ diſtantē a pūcto cui applicat̃ in
p̄nᵒ ſe habeat in ꝓportione in triplo minori ꝙ̃ ſit ꝓportio
ex qua tunc mouebit̃.b.ad punctū ad quē tūc erit: tunc ꝙ
a.ſit minoꝛ poᵃ.b.arguītū eſt. Et ꝙ.a. ꝯtiᵉ vniforᶠ remittet
motū ſuū trãſeundo quartã illã intēſiſſimã argᶠ ſic.b.vniᶠ
remittet motuꝫ ſuū : ꝛ.a.ꝯtiᵉ mouebit̃ in triplo tardius.b.
qd̄ arᶠ oīo ſilr̄ ſicut in caſu ꝓxio arguebat̃ ꝙ.a. ꝯtiᵉ moue-

baẗ in tri° veloci⁹.b.ḡ ſeq̃ ꝙ ↄti° vni° remittet motũ ſuũ
⁊ illã q̃rtã icẽſiſſimã ptrãſibit:q2.b.ↄti° mouebiẗ in tri° ve
loci⁹.a.ḡ in tri° plus ptrãſibit i eodẽ tpe:⁊ p ↄñs cũ.b.ptrã
ſierit tres quartas eius ptrãſibiẗ illa vltima q̃rta ab ipſo
a.Et ꝙ remittet ad gm tm ſic pꝫ.b.ptrãſcũdo illas tres q̃r
tas.c.remittet ſolũ ad gm:ḡ.a.ptrãſcũdo 4am intẽſiſſimã ſo
luꝫ ad gm vni° remittet motũ ſuũ:q2.a.in tri° tardi⁹ ↄtinue
mouebiẗ trãſcũdo illã q̃rtã icẽſiſſimã q̃ꝫ.b.trãſcũdo alias
q̃rtas remiſſiores.Et ꝙ.a.ↄti° itẽdeẗ in po°.ſic arᵉ.a.ſemꝑ
ptrãſibit ptẽ ſubtriplã magis reſiſtẽteꝫ qñ.b.ptrãſibit ptẽ
triplã min⁹ reſiſtẽteꝫ.Si ḡ.a.ſtaret in po° nõ in triplo ma
iorẽ latm deꝑderet.b.trãſcũdo illas tres q̃rtas q̃ꝫ.a.ptrã
ſcũdo ſubtripm magis reſiſtẽs.ↄña iuxta 37am ſatis pꝫ.Sꝫ
ſi.a.remittereẗ in po° maiorẽ latm deꝑderet q̃ꝫ ſi ſtaret:ḡ
ad h̃ ꝙ.b.trãſcũdo triplũ min⁹ reſiſtẽs qñ.a.trãſibit ſub
triplũ magis reſiſtẽs in tri° maiorẽ latm deꝑderet q̃ꝫ.a.re
quiriẗ ꝙ.a.maioreẗ in po°:tũc de 4a intẽſiſſima.c.ꝓcedit
ↄcl'o:eo ꝙ.b.in illa vni° remittit motũ ad nõ gm:⁊.a.tran
ſcũdo eãdẽ q̃rtã p ↄtinuã itẽſionẽ po° vni° remittit motũ
ſuũ ad gm:⁊.a.po° eſt minor.b.ideo di ꝓcedẽdo ꝯnẽ.Et ad
argm in oppom rñdeẗ vt ṗus in rñſione ad argum ꝯ 41am.
ꝫ 36m ℂ Concl'oni 36e ſic obijciẗ ſi ſit poſe:ſit.a.po° minor ⁊c.⁊
b.maior nõ variata:tũc ſi tñ.a.q̃ꝫ.b.remittũt mot⁹ ſuos ad
nõ gm:⁊.a.ↄti° intẽdeẗ in po°:ſeq̃ ꝙ.a.ↄti° añ finẽ erit mi
nor:ſꝫ oĩs minor.b.in ifim tarde remittet añq̃ꝫ ad extremũ
intẽſius deueniat:ḡ.a.in ifim tarde aliqñ remittet:⁊ p ↄñs
nõ ↄti° vni°.ℂ Hoc ↄfirmaẗ per ifinitas potẽtias ſemper
eq̃les.a.qñ.a.ad aliq̃ pũcta deuenerit:⁊ ad eadeꝫ applica
tas:q2 extã quelꝫ illaꝝ eſt minor.b.ſequiẗ ꝙ ifim tarde re
mittet aliquã illaꝝ anteq̃ꝫ extremũ intẽſius attingeret:vl'
quelꝫ añq̃ꝫ a motu ceſſaret:⁊.a.ↄti° tardi⁹ remittẽt q̃ꝫ facit
po° ſibi imete:eo ꝙ.a.ↄti° erit eq̃lis po° imete ſibi:⁊ inten
daẗ in po° q̃ intẽſio po° ipedit remiſſionẽ motus:ḡ ſeq̃ ꝙ
infite tarde remittat.a.motũ ſuũ:⁊ p ↄñs nõ vni° cõtinue.
ℂ Oꝫ tñ illa ꝯ ſit v̄a,arᵉ ſic.Sit.c.mem vt ṗus:⁊.b.ſilr po°
vt ṗus:que nõ variata ⁊ vni° remittat motũ ſuũ ad non gm
totũ.c.ptrãſcũdo:⁊ ſufficiat.a.ꝑcize in du° tardi⁹ mouẽ ad
punctũ mem q̃ꝫ.b.ad extremũ remiſſi⁹.Oꝫ.a.tũc ſit remiſ
ſius vel minoris po°.b.pꝫ:q2.b.nõ in du° veloci⁹ ſufficit mo
uere ad extremũ remiſſi⁹ q̃ꝫ ipm ad punctũ mem vt argutũ
eſt:vt in ꝯne 39a.ſed.b.in du° veloci⁹ ſufficit mouere cũ ex
tremo remiſſiori q̃ꝫ.a.cũ pũcto me°:ḡ veloci⁹ ſufficit.b.mo
uere ad pũctũ mem q̃ꝫ.a.ḡ.a.po° eſt minor.b.Ponaẗ ergo ꝙ
qñcũqꝫ.b.erit ad pũctũ diſtãteꝫ ab extre° remiſſiori ꝑ ali
quã diſtantiã ꝙ ꝓtũc.a.ad punctũ in du° min⁹ diſtantẽ a
pũcto me° hẽat ꝓporem in du° minorẽ q̃ꝫ erit ꝓpor°:ex q̃
tũc mouebiẗ.b.ad pũctũ ad quẽ tũc erit:⁊ arᵉ ꝙ.a.vnifor
remittet motũ ad nõ gm ptrãſcũdo medietatẽ intẽſiorẽ.c.
q2 ↄti° in du° tardius mouebiẗ ipſo.b.ḡ in du° tardius ↄti°
remittet motũ q̃ꝫ.b.⁊ in du° min⁹ ptrãſibit.ſed.b.remittet
motũ vni° ad nõ gm totũ mem trãſcũdo:ḡ.a.remittet vni°
ad nõ gm medietatẽ illi⁹ intẽſiorẽ trãſcũdo.Oꝫ.a.ↄtinue in
du° tardi⁹ mouebiẗ q̃ꝫ.b.arguiẗ vt ṗus.Si.n.mouebiẗ.a.
veloci⁹ q̃ꝫ in du° tardi⁹.b.ḡ plus q̃ꝫ ſubdum ptrãſibit:⁊ per
ↄñs nõ mouebiẗ tardi⁹ q̃ꝫ in du° tardius.Si tardius q̃ꝫ in
du° tardi⁹:ḡ min⁹ q̃ꝫ ſubdum ptrãſibit:⁊ per ↄñs mouebiẗ
veloci⁹ q̃ꝫ in du° tardi⁹ ⁊ nõ tardius q̃ꝫ in du° tardius.iſta
ↄña pꝫ:ſic arguiẗ ꝯnib⁹.35.⁊.39.⁊ alijs ſequentib⁹.Seq̃ ḡ
ꝙ.a.po° minor.b.vni° remittet motũ ad nõ gm ptrãſcũdo
medietatẽ intẽſiorẽ.c.⁊ ſua po° itẽdeẗ ↄti°:q2 ſemꝑ erit.a.
ꝓpinqui⁹ extre° intẽſiori.c.q̃ꝫ erit.b.eideꝫ extre°:q2 alr ci
tius deueniret.b.ad extrem.c.q̃ꝫ.a.ad ideꝫ extrem.ↄñs ſtꝫ ⁊
iꝓbatũ:ḡ ſeq̃ ꝙ.a.ↄti° ptrãſibit ptẽ ſubduplã magis re
ſiſtentẽ qñ.b.ptrãſibit ptẽ illã duplaꝫ min⁹ reſiſtentẽ ⁊ in
du° minorẽ latm mot⁹ ꝑciſe deꝑdet.a.ptrãſcũdo illã ptẽ
ſubduplaꝫ magis reſiſtentẽ q̃ꝫ faciet.b.ptrãſcũdo pteꝫ du
plaꝫ min⁹ reſiſtentẽ:ḡ.a.intẽdeẗ in po°.ↄña pꝫ per arm factũ
in ꝯne ꝓpria qđ depẽdet ex ꝯne 37a.ḡ ſeq̃ ↄcl'o 36a.p2o 1a
medietate.c.arguẽdo.Oꝫ aũt po° minor p ↄtinuã remiſſio
nem po° nõ poſſit vni° remittere totũ mem ptrãſcundo pꝫ:
q2 ex quo.b.remittet ad nõ gm ad extremũ intẽſius deue
niẽdo:ſequiẗ ꝙ ſi minor po° remittaẗ vel ſtet non põt ad
ideꝫ extremũ deuenire:ḡ ſeq̃ illđ.ℂ In medio diffor mi 40a rea
vbi vna po° vnifor remittit motũ ſuũ ad nõ gm nõ varia
ta:alia po° minor per ↄtinuã remiſſionẽ ſue po° vnifor re
mitteret motũ ſuũ ad aliquẽ punctũ medij intrinſecũ de
ueniẽdo.ℂ Cõtra.ſi ſic:ſit.c.mediũ vt ṗus:⁊.b.po° nõ va ꝫ regm
riata ⁊.a.minor ⁊ ſit.d.pũct° vbi.a.ceſſabit a motu.⁊ arg°
ꝙ nõ:q2 ſi ſic ſequereẗ ꝙ infim tarde creſceret ibi reſi° re°
a.⁊ per ↄñs ifim tarde remitteret motũ ſuũ.Et añs arguiẗ:
q2.b.vnifor remittet motuꝫ ſuũ:ergo finite velociter cre
ſcet ſibi ↄtinue de reſiſtẽtia:⁊ ad quẽlꝫ punctũ intrinſecuꝫ
certe velociter mouebiẗ vt cõſtat:ḡ infinite veloci⁹.b.mo
uebiẗ imediate ante.d.punctuꝫ q̃ꝫ.a.⁊ nõ creſcet illius reſi
ſtentia niſi per motũ:ergo ifinite veloci⁹ tũc creſcet reſiſtẽ
tia.b.q̃ꝫ.a.ḡ ad.d.infinite tarde creſcet reſiſtentia re°.a.qđ
fuit ꝓbãduꝫ.ℂ Oꝫ tñ ↄcl'o ſit vera arguiẗ ſic.Sint.c.b.vt
prius:⁊ ponaẗ.b.ad punctũ mediũ ⁊.a.ad extremũ remiſ
ſius.c.⁊ hẽat.a.equalem ꝓportionẽ ꝑciſe ad extrem remiſ
ſius:ſicut.b.ad punctũ mediũ.c.medij:⁊ ſequiẗ ꝙ.a.po° eſt
minor:q2 hꝫ equalem ꝓportionẽ ad reſiſtentiã minorem
ſicut.b.ad maiorẽ:moueaẗ tunc vtrũqꝫ verſus extremuꝫ
intẽſius:⁊ ponaẗ ꝙ qñcũqꝫ.b.deſtiterit a puncto me° per
aliquã diſtantiã ꝙ ad punctũ equalr diſtantẽ ab extremo
remiſſiori habeat.a.ꝓtunc equaleꝫ ꝓportionẽ ſicut eſt ꝓ
portio ex qua mouebiẗ.b.ꝓtũc:iſto poſito ſequiẗ ꝙ.a.po°
vnifor remittet motũ ſuũ ad nõ gradũ ad punctũ mediũ
veniẽdo:q2.a.ↄtinue mouebiẗ equalr ſicut.b.⁊.b.remittet
motũ vnifor ad nõ gm:ḡ etiã.a.vnifor remittet motũ ſuũ
ad nõ gm.Añs pꝫ.ſi eniꝫ.a.mouebiẗ veloci⁹ q̃ꝫ.b.ſequiẗ ꝙ
per plus diſtabit ab extremo remiſſiori q̃ꝫ.b.a puncto me
dio:⁊ per ↄñs tardius mouebiẗ q̃ꝫ.b.ſi tardi⁹ mouebiẗ.a.
q̃ꝫ.b.ſequiẗ ꝙ erit ꝓpinquus extremo remiſſiori q̃ꝫ.b.pun
cto medio.⁊ per ↄñs mouebiẗ velocius.b.⁊ non tardius:
ergo ſequitur ꝙ.a.non mouebiẗ veloci⁹.b.nec tardius.b.
Et per ↄñs preciſe eque ve° cũ.b.⁊.b.remittet motũ vnifor
miter ad nõ graduꝫ pertrãſcũdo medietatẽ intẽſiorẽ:⁊.a.
incipit in extremo remiſſiori:ergo.a.remittet motũ ſuum
vnifor ad nõ graduꝫ pertrãſcũdo medietatẽ ad punctuꝫ
mediuꝫ veniẽdo.Et ꝙ.a.cõtinue remitteẗ in po° ꝓbo ſic:
ſemꝑ pertrãſibit pteꝫ equaleꝫ minus reſiſtentẽ qñ.b.per
tranſibit partẽ equalem magis reſiſtentẽ ⁊ equaleꝫ latm
motus pertrãſcundo illam partẽ minus reſiſtentẽ deꝑdet
a.ſicut.b.pertrãſcundo partẽ equaleꝫ magis reſiſtenteꝫ.ḡ
per 37m ⁊ 39m requiriẗ ꝙ.a.remittaẗ in po°:⁊ per ↄñs ſeq̃
cõcluſio.ℂ Pro ꝯne 36a rñdeẗ eandẽ ↄcedendo:⁊ ad arm Ad arm
in oppoſitũ ↄcediẗ ꝙ oĩs po° minor.b.ifinite tarde remit ꝫ 36m
teret motũ anteq̃ꝫ ceſſaret a motu:ſi in aliqua certa ꝓpor regm
tione ſit minor:ſed in nulla certa ꝓportione deſinet.a.eſſe
minor.b.⁊ ideo nõ ſeq̃ ꝙ.a.infinite tarde remittet.ℂ Et
ad cõfirmationem di ꝙ nõ infinite tarde remittet aliqua
iſtaꝝ infinitaꝝ cũ.a.ſibi fuerit imediata.Et tũc qñ arguiẗ
ꝙ infinite modicum diſtabit aliqua ab extremo qñ.a.po°
erit ſibi imediata cõcediẗ:ſed in nulla ꝓportione erit aliq̃
illaꝝ potentiaꝝ minor.b.ideo nõ ſequiẗ ꝙ infinituꝫ tarde
remittet aliqua illaꝝ qñ.a.ſibi erit imediatũ:⁊ ſic nõ ꝓce
dit argumẽtũ.ℂ Pro iſta.ſ.40a cõcediẗ:⁊ ad argumẽtũ Ad arm
in oppoſitũ qñ ponit ꝙ.d.ſit iſte punctus ⁊c.admittitur ⁊ ꝫ 40m
tunc conceditur ꝙ ibi infinite tarde creſcet reſiſtentia re
ſpectu.a.⁊ negaẗ vlterius:ergo ifinite tarde remittet:quia

potentia minorabitur. stat.n.po^{us} minorari: ita q motus re-
mittet: lz nō crescat resi^a: z lz decresceret resi^a: vt satis no-
tuz est. Si tñ nō remitteret.a. in po^a bñ sequeret q.a.ad
d.punctū infinite tarde remitteret: z ideo nō pcedit argūm.
41ª reg^a ¶ Ex pdictis pz q si vna po^a non variata vnifor^r remit-
tat zc. po^a minor nō pōt vnifor^r remittere motū ad nō g^m.
per ptinuā eius intēsionē citra extremū intēsius qescēdo:
qz si sic: sit illa.a. z sit.d.punct^s ad quē quiescet: z sequat q
ibi infinite tarde acqret de resistētia: exquo infinite tarde
mouebit vt arguebat in pne prima. Si g nō remittat in
po^a infinite tarde remittet motū suū: eo q infinite tarde p-
portionabilr crescet resi^a sua. z si sic infinite tarde depdet
42^a re^a de ppor^{ne} inter po^{us} illam z suā resistentiā. pz g p. ¶ Ubi
po^a nō variata zc. po^a minor aliqñ per intēsionē z aliqñ p
remissionē sue potētie pōt vnifor^r ad nō gradū remittere
motū suū deueniēdo ad punctū intrinsecū: z ibi quiescēdo.
Sint enī.a.b. vt prius: z ponat.b. ad extremū remissi^s.c.
z.a.ad punctū mediuz ad quē in duplo tardius pcise suffi-
ciat mouere q.b. ad extremū remissius.c. tunc pz q.a.est
minor q.b. qz.a.b.nō in duplo tardi^s moueret ad punctuz
mediū q ad extremū remissius vt in.39. declarat. Ponat
ergo sic.a.variari q qñcūqz.b.erit ad punctū distantē ab
extremo remissiori q ad punctū in quadruplo minus di-
stantez a puncto medio hēat.a. pportionē in qdruplo mi-
norē q erit pportio: ex qua tūc mouebit.b. tūc seqt pclo:
qz.b.tunc ptinue mouebit in qdruplo veloci^s.a. vt in.39.
arguebat. sed.b.remittet motū vnifor^r ad nō graduz totū
mediū trāseūdo: ergo.a.remittet motū vnifor^r ad non g^m.
transeūdo vnā quartā: z nūc est ad punctū mediū: ergo re-
mittet motū vnifor^r ad nō g^m quiescēdo citra extremū. Et
q aliqñ intēdet in po^a z aliqñ remittet: sic arguit. per ma-
gnū tps mouebit.a.in qdruplo tardi^s.b. z in qdruplo mi-
nus trāseūdo q.b. z per magnū tps mouebit cū resistētia
maiori q.b. pcise in qdruplo minorē latitudinē depdēdo
q.b. trāseūdo ptē qdruplaz min^s resistentē: g per.37. z pe-
nultimā regrit q intendat in po^a. Et q aliqñ remittat in
po^a arguit sic. Exquo.b.totū ptrāsibit: z.a.quartā solū: seqt
q.b.pcedet.a. z ptrāsibit quadruplaz ptē magis resistē-
tem qñ.a.ptrāsibit subquadruplaz min^s resistentē: z non
variabit: g ad hoc q.a.ptrāseūdo illaz ptē subquadru-
plaz min^s resistentē in qdruplo minorē lati^{nē} pcise deper-
dat.a.q.b.ptranseūdo ptē qdruplaz magis resistentē: req
rit q.a.remittat in po^a: qz si staret in po^a nō pcise in qua-
druplo minorē lati^{nem} depderet: nec a fortiori si intēderet
in po^a. pz ergo q aliqñ sua po^a intendet z aliqñ remittet:
z ideo dī q in illo istāti in quo.b.attinget.a.desinet.a.intē
di in po^a: z incipiet pñnc remitti in po^a: vt ex pdictis sa-
43ª reg^a tis pz zc. ¶ Ubicunqz aliqua po^a in medio difformi ipsa
nō variata remittet motū vnifor^r idez mediū trāseundo:
siue ad graduz siue ad nō g^m: ois po^a maior ptinue veloci^s
z velocius remittet motū suū. qd sic arguit: sit.c.b. mediū
in quo.b.po^a nō variata remittet motū suū vnifor^r ad nō
graduz grā argumenti. Et sit.a.po^a que in duplo velocius
sufficiat mouere ad extremū remissius q.b.ad idez extre-
muz: z arguit sic. Ad oēm punctū intrinsecū sufficit.a.mo-
uere plus q in duplo veloci^s.b. qd pbo sic.b.ad oēm pun-
ctū intrinsecū tardi^s sufficit mouere q ad extremū remis-
sius: z ad oēm punctū pportio potētie.a.ad resistentiā illi
puncto corrñdentē excedit pportionē.b.ad resistētiaz illi
puncto corrñdentē per eqlez excessum. g ad oēm punctuz
intrinsecū erit maior pportio mot^s.a.ad motū.b.q ad ex-
tremū remissius: g ad oēm punctū intrinsecū mouebit.a.
plus q in duplo veloci^s.b. g ptinue remittet.a.motū suum
plus q in duplo velocius.b. pbo pñtiaz: qz capio aliqd in-
stans: z tūc.a.erit ad aliquē punctū intrinsecū: g si.b.esset ad

eundez punctū.a.plus q in duplo velocius moueret ipso
b. vt prius pbatū est: z per pñs tūc.a.plus q in duplo ve-
locius pertrāsiret de spatio q.b. z si sic plus q in du^o velo-
cius remittet motū q.b. qz inciperet tunc.b.pcedere z oēz
partē transeūdo versus extremū intēsius maiorē latitudi-
nem mot^s deperdet q pertrāseundo partē equalem versus
extremū remissius: vt pbatū est in pne 37^a. ergo si.b.tunc
esset ad eundez punctū sicut.a.plus q in duplo veloci^s re-
mitteret tunc.a.motū suū q.b. sed ad oēz punctū.b.eque^r
remittet sicut ad aliquē punctū: ergo vbicūqz.b. tunc erit:
sequit q.a.plus q in duplo velocius remittet ipso.b.mo-
tum suū. Idez est argūm q.a.ptinue velocius z velocius re-
mittet motū suū: qz ad oēz punctū magis resistentē z ver-
sus extremū intēsius maior erit pportio motus.a. ad mo-
tum.b.q ad punctū min^s resistentē: qz excessus motus.a.
supra motū.b. vnicuiqz puncto est equalis: z motus.b.est
remissior ad oēm punctū magis resistentē q ad aliquem
punctū minus resistentē: z ex equali excessu inter minora
resultat maior pportio q inter maiora vt satis cōstat. Et
sequit vlteri^s si ad oēm punctū magis resistentē sit maior
pportio mot^s.a.ad motū.b.q ad punctū min^s resistentez
z pportionabilr sicut.a.ad aliquē punctū mouebit velo-
cius.b. ita veloci^s remittet motū suū ad illuz punctū q.b.
ergo ad oēm punctū magis resistentē erit maior pportio
remissionis mot^s.a.ad remissionē motus.b.q ad punctuz
minus resistentē. Cuz ergo vbiqz.b.equalr remittet motū
suum: sequit q qñ.a.erit ad punctū magis resistentē velo-
cius remittet motuz q qñ ipsuz erit cū resistentia minori:
sed cōtinue mouebit cū resistentia maiori z maiori: ergo
cōtinue velocius z veloci^s remittet motū suū. Idez est ar-
gumentū siue.b.remittat ad graduz siue ad nō gradum: z
qualiscūqz est pportio motus.a.ad motū.b. ad extremuz
remissius vt per scđm argu^m poterit declarari. ¶ Qz pclo 3 reg^{am}
nō sit vera arguit sic. Sit.a.po^a maior vt prius. z.b. minor
ita q.a.in duplo veloci^s sufficiat moueri cum extremo re-
missiori q.b. sufficiat: tūc.a.in duplo veloci^s incipit remit-
tere motū q.b. qz si nō: sequit q plus q in duplo veloci^s
incipit moueri: z per pñs plus q in duplo veloci^s incipit
acqrere de resistētia: z resistētia in pn^o est eqlis: ergo plus
q in duplo veloci^s incipit remittere motuz. pña tenet per
pnez 37^{am}. Cuz igit.a.ptinue veloci^s z velocius remittet z
b. vnifor^r: seqt q plus q in duplo veloci^s ptinue remittet
ipso.b.remittēte vnifor^r z.a.ptrāseūdo.c. mediū tantā la-
titudinē depdet sicut.b.idē mediū trāseūdo per 33^{am}. ergo
plus q in duplo citi^s depdet totā istā latitudinē.a.q.b. z p
pñs plus q in duplo citi^s idez medium.a.trāsibit. pña est
falsuz. nam.a.nunq in duplo veloci^s mouebit q.b. igitur
nō in duplo citi^s ptrāsibit.a.q.b.idez mediū. pña tenet: qz
si.a.in duplo veloci^s moueret q.b.in duplo citius trāsiret
c.q.b. ideo pclo nō est vera. ¶ Pro isto dī cōcedendo cō- Responsio.
clusionē. z ad arg^m in oppositū cōcedit totū vsqz ad illud
qñ dicit q.a.nunq in duplo velocius mouebit q.b. istud
etiā cōcedit z negat pña vlterius: igit non in duplo citius
trāsibit idez mediū: qz postq.a.trāsibit.c. mot^s.b.erit tar-
dior q ante. Ideo lz qñ simul mouebunt mot^s.a. non erit
duplus ad.b. motū: totus tñ motus erit plus q duplus ad
motū.b. rōne tardioris motus.b. postq.c. fuerit pertransi-
tum ab.a.q ante: qz motus.a.nūc est duplus ad motū.b. z
per equalez latitudinē remittet velocius z veloci^s p quaz
etiā mot^s.b.remittet vnif^r: igit motus.a. gradui plus q in
du^o intēsiori corrñdebit q sit gdus cui corrñdebit.b. siue
b.remittat ad g^m siue ad nō g^m. ¶ Pro q pña pbanda p- 44^a
bat i^a pclo q ois mot^s veloci^s z velocius depdit^s qñtū ad
ptransitionē spatij gdui intēsiori me^s corrñdet: qz si nō: re-
mittat.a.mot^s veloci^s z veloci^s.b. vnif^r p idē tps z p eūdez

latiᵗᵘᵈⁱⁿᵉ ab eodē gᵘ ad eundē gᵘᵐ ſicut eſt poſſe ꝙ aliqͦd mo-
ueat͂ vniᶠ aliqͦd ſpatiū in hora ꝑtrāſeūdo: ꝛ ꝙ aliqͦ aliud
mobile idē ſpatiū trāſiret in hora velociꝰ ꝛ velociꝰ mouē-
do: tñ idez tardiꝰ icipet moueri. Iſto caſu admiſſo argᵉ ſic.
Motꝰ.a.ꝛ.b. ſunt eq̄les: ꝛ motꝰ.a. ꝯtinue erit velocior mo-
tu.b. igit͂ gradui inteſiori correſpōdebit motꝰ.a. ꝙ̄ motus.b.
q̄ntū ad ꝑtrāſitionē ſpatij. ꝯña pȝ: ꝛ añs arᵉ ſic. Si.a. motꝰ
nō erit velocior motu.b. ꝯtinue ſit.c. inſtās id in quo non: ꝛ
arᵉ ſic. Uel.a. motꝰ tūc velociꝰ remittet͂ ꝙ̄.b. vel equeᵉ vel
tardiꝰ. Si velociꝰ tūc remittet͂.a. motꝰ ꝙ̄.b. ꝛ ꝯtiᵉ poſt ve-
lociꝰ ꝛ in fine erūt.a.ꝛ.b. ſub eodez gᵘ: igit͂ in.c. erit.a. motꝰ
inteſior.b. ꝯña pȝ: qꝛ ex quo poſt.c. inſtās velociꝰ remittet͂
ꝙ̄ ante: ſeq̄t͂ ꝙ maiorē latiᵗᵘᵈⁱⁿᵉᵐ deꝑdet.a. ꝛ nō ꝑdet aliquā
niſi illā q̄ eſt iter gᵘᵐ hñduz in.c. ꝛ gᵘᵐ hñduz in fine: igit͂ tūc
per plus diſtabit a gᵘ hñdo in fine ꝙ̄.b. ab eodē: ꝛ per ꝯñs
erit iteſior.a. motꝰ.b. motu. Si tūc equeᵉ ꝑciſe remittet͂.a.
motꝰ ſicut.b. ꝛ ꝯtiᵉ poſt velociꝰ ꝙ̄.b. ꝛ in fine erūt equales:
igit͂ tūc erit.a. motꝰ inteſior vt ꝑus argutū eſt. Si tardiꝰ
tūc remittet͂.a. motꝰ ꝙ̄.b. ꝛ ꝯtiᵉ añ idez inſtās remittet͂ tar-
dius ꝙ̄.b. ꝛ in ṗnᵒ ſunt eq̄les ꝑ caſū: igit͂ tūc.a. motꝰ eſt in-
tenſior.b. ꝯña pȝ de ſe: ſiue igit͂ ponat͂ ꝙ in.c. inſtāti velo-
cius remittat͂ ꝙ̄.b. ſiue tardiꝰ ſiue equeᵉ: ſeq̄t͂ ꝙ.a. tūc erit
inteſior.b. ꝛ ſic de oī alio inſtāti eſt arguēduz. ſed ꝯtiᵉ velo-
cius remittet͂.a. motꝰ ꝙ̄.b. vel tardius vel equeᵉ: igit͂ ꝯtiᵉ
erit.a. motꝰ inteſior.b. igit͂ gradui inteſiori correſpōdebit mo-
tus.a. ꝙ̄ motꝰ.b. ꝛ idez eſt gradus mediꝰ latiᵗᵘᵈⁱⁿⁱˢ deꝑdite ab
a. in iſto tꝑe ſicut a.b. ꝛ.b. motꝰ correſpōdebit gradui medio
iſtiꝰ latiᵗᵘᵈⁱⁿⁱˢ: vt ꝓbatū eſt in ſuppōne 2ᵃ ꝯnis 30ᵉ. ibi.n. ꝓba-
tur ꝙ oīs motꝰ acq̄ſitꝰ vniforᵉ vel deꝑditꝰ ſuo gradui meᵒ
correſpōdet: igit͂ ſeq̄t͂ ꝙ motus.a. gradui inteſiori meᵒ corre-
ſpōdet: qͦd fuit ꝓbāduz. ¶ Ex iᵒ ſufficiēter ꝓbat͂ precedēs ꝯ.
Motꝰ.a. eſt duplus ad motū.b. ꝛ velociꝰ ꝛ velociꝰ ꝯtinue
remittet͂ per eq̄lez latiᵗᵘᵈⁱⁿᵉᵐ ꝛ motꝰ.b. vniforᵉ: igit͂ motus.a.
correſpōdebit gradui plus ꝙ̄ in duplo inteſiori ꝙ̄ motꝰ.b. qꝛ
ex quo motꝰ.a. eſt duplus ad motū.b. ꝛ per eq̄lez latiᵗᵘᵈⁱⁿᵉᵐ re-
mittet͂: per tantū ġ excedet gradus mediꝰ īter gᵘᵐ ſub quo
nūc eſt: ꝛ gᵘᵐ ad quē remittet͂ gᵘᵐ illiꝰ mediū latiᵗᵘᵈⁱⁿⁱˢ deꝑdē-
de ab.a. ſicut in ṗnᵒ motꝰ.a. excedit motū.b. ġ eq̄lis eſt ex-
ceſſus illoꝝ graduū medioꝝ ſīc extremoꝝ: ꝛ gradus me-
dij ſūt remiſſiores ꝙ̄ habiti gradus in ṗnᵒ. ergo maior eſt
ꝓportio illoꝝ graduū medioꝝ ꝙ̄ ġduū extremaliū a qbꝰ
motus.a.b. incipiūt remitti: qꝛ ex eq̄li exceſſu inter minora
reſultat maior ꝓporᵒ ꝙ̄ inter maiora. Cū ġ motꝰ.a. in ṗnᵒ
ſit duplus ad motū.b. ꝛ per eq̄lem latiᵗᵘᵈⁱⁿᵉᵐ remittet͂: ſeq̄t͂ ꝙ
gradus mediꝰ latiᵗᵘᵈⁱⁿⁱˢ deꝑdende ab.a. eſt plus ꝙ̄ duplus ad
gᵘᵐ mediū latiᵗᵘᵈⁱⁿⁱˢ deꝑdende a.b. Cum ġ motꝰ.a. correſpōdebit
gradui inteſiori meᵒ: eo ꝙ velociꝰ ꝛ velociꝰ remittet͂ ꝛ mo-
tus.b. gradui ſuo meᵒ: igit͂ ġdus cui correſpōdebit.a. erit plus
ꝙ̄ duplus ad gᵘᵐ cui correſpōdebit.b. qͦd fuit ꝓbāduz. Ex iſto
ſtatī ſeq̄t͂ ꝙ plus ꝙ̄ in duᵒ citiꝰ ꝑtranſibit.a. ꝙ̄.b. idem.c.
45 ¶ Et ꝯſilr oīs motꝰ tardius ꝛ tardiꝰ deꝑditꝰ gradui remiſ-
ſiori meᵒ correſpōdet: qꝛ ſi nō: ſit.a. motus remiſſus tardius ꝛ
tardiꝰ per.c. latiᵗᵘᵈⁱⁿᵉᵐ: ꝛ ſit.b. motꝰ remiſſus vniforᵉ ꝑ eādē.c.
latiᵗᵘᵈⁱⁿᵉᵐ ꝛ in eodez tꝑe: ꝛ ſeq̄t͂ ꝙ.a. motꝰ ꝯtiᵉ erit remiſſior.b.
Si eniz.a. pro aliq̄ iſtāti remitteret͂ velociꝰ ꝙ̄.b. ꝛ ꝯtinue
b. vniᶠ ꝛ.a. tardiꝰ ꝛ tardiꝰ: ſeq̄t͂ ꝙ ꝯtinue añ illud inſtās re-
mittet͂.a. motꝰ velociꝰ ꝙ̄.b. ꝛ in ṗnᵒ ſunt eq̄les: igit͂ tūc erit
a. motꝰ remiſſior ꝙ̄.b. Si.n. in inſtāti dato equeᵉ remittet͂
a. motꝰ ſicut.b. idez ſeq̄t͂: ꝛ ſi tardius tūc remittet͂.a. motꝰ
ꝙ̄.b. ſeq̄t͂ ꝙ ꝯtinue poſt tardius remittet͂.a. motꝰ ꝙ̄.b. qꝛ
poſt remittet͂ tardiꝰ.a. motꝰ ꝙ̄ ṗus ꝛ.b. vniᶠ: ꝛ per ꝯñs poſt
illud inſtans minorē latiᵗᵘᵈⁱⁿᵉᵐ deꝑdet.a. ꝙ̄.b. ꝛ in fine erit.a.
eque inteſus cū.b. igit͂ in illo inſtāti dato erit.a. motꝰ remiſ-
ſior.b. motu ꝛc. Seq̄t͂ ġ ꝙ ſiue motꝰ.a. remittit͂ velociꝰ ꝙ̄
b. vel tardius vel equeᵉ ꝙ tūc erit.a. motꝰ remiſſior: ſed
quēcūq̄ꝫ remittet͂ tūc remittet͂ velociꝰ vel tardiꝰ vel equeᵉ
cū ipſo.b. igit͂.a. ꝯtinue erit remiſſior.b. ¶ Ubicūq̄ꝫ velo- 46ᵃ
cius ꝛ velociꝰ motꝰ acq̄rit͂ gradui remiſſiori meᵒ correſpōdet:
qꝛ quēcūq̄ꝫ tardiꝰ ꝛ tardiꝰ remittat͂ correſpōdet gradui remiſ-
ſiori medio. igit͂ ecōtra ſi velociꝰ ꝛ velocius acq̄rit͂ correſpō-
debit gradui remiſſiori meᵒ qͦd fuit ꝓbādū. ¶ Ubicūq̄ꝫ 47ᵃ
motꝰ tardius ꝛ tardiꝰ acq̄rit͂ correſpōdebit gradui intenſiori
medio vt pōt argui ſicut argutū eſt 46ᵃ ꝯne. ecōuerſo tñ
mō: qꝛ idez eſt q̄n motꝰ tardiꝰ ꝛ tardiꝰ acq̄rit͂ ꝛ ecōtra ve-
locius ꝛ velociꝰ remittit͂. ¶ Si aliq̄ latitudo motus ꝯſilr 48ᵃ
acq̄rit͂ ſicut deꝑdit͂ eidez gradui correſpōdet. ¶ Sed ꝙ nō: 3 ꝯne3
ſic arᵉ. Acq̄rat͂ motꝰ velocius ꝛ velociꝰ: ꝛ ſeq̄t͂ ꝙ.c. ſpōdebit
gradui remiſſiori meᵒ per 46ᵃᵐ ꝯnē. ſed ſi ꝯſilr deꝑderet͂
correſpōdebit gradui inteſiori meᵒ: qꝛ tūc velociꝰ ꝛ velocius
deꝑderet͂: igit͂ nō eidem gradui correſpōdet motꝰ acq̄ſitꝰ ꝛc.
¶ Pro quo itelligēduz eſt ꝙ ſi motꝰ ſit aliqualr acq̄ſitus Riſſio.
ꝛ per aliud tꝑs remittat͂: ita ꝙ verſus ṗnᵐ ſcḋi tꝑis ſit cō-
ſilr deꝑditio ſicut verſus finē ṗmi tꝑis erat acquiſitio: ꝛ ſi ſit
verſus finez ſcḋi tꝑis ꝯſilis deꝑditio ſicut verſus ṗnᵐ ṗmi
tꝑis acq̄ſitio illi motꝰ eidez ġdui correſpōdebūt vt acq̄ſitum
in vno tꝑe ꝛ deꝑditū in alio: ſic ēt in ꝓpoſito ſi in vno tꝑe
aliqͦ motꝰ velociꝰ ꝛ velociꝰ acq̄rat͂: ꝛ in alio tꝑe ꝯſilr deꝑ-
dat͂: in eodē alio tꝑe tardiꝰ ꝛ tardiꝰ remittet͂. ſed ſi ſic intelli-
gat͂ ꝯſilr oīo ſicut deꝑdit͂: ita ꝙ verſus ṗnᵐ deꝑditiōis ſit
ita ꝯſilis ſicut eſt acq̄ſitio verſus ſuū ṗnᵐ: tūc nō eſt ꝯclō vera
ideo nō ꝓcedit argᵐ ꝯ ꝯnez illā: ſed ſatis ꝯcludit ꝯ 2ᵐ intel-
lectū: ꝛ nō ad ṗᵐ intellꝰm qui eſt verꝰ. ¶ Oīs motꝰ velo- 49ᵃ ꝯ
cius ꝛ velociꝰ acq̄ſitus gradui inteſiori ꝙ̄ ſit gᵘ quē hēbit
in inſtāti meᵒ quo ad ꝑtrāſitionē ſpatij correſpōdet ꝛ ecōtra
ſi tardiꝰ ꝛ tardiꝰ remittat͂. Hec ſic arᵉ. Poſito ꝙ.a. ꝯtinue
intēdat motū ſuū velocius ꝛ velocius ꝛc.

¶ Tractatus 15ᵘˢ de medio nō reſiſtente ſeu de cremento
potentie ꝛ reſiſtentie.

Sequitur ponere quaſdam ꝯnes vbi in ṗᵃ ꝯ ſine
medio nō reſiſtēte eſt gradꝰ la- regula
titudinis reſiᵉ ꝑbibilis quo ad ſubīm: quaꝝ ṗᵃ
eſt hec. Si ſit meᵐ nō reſiſtēs quo ad mobile
mouēs localr: a cuiꝰ vno extremo icipiat eſſe
ꝑtibilis acq̄ſitio latiᵗᵘᵈⁱⁿⁱˢ vniforᵉ difformis reſiᵉ extremo re-
miſſiori quieſcēte manēte ꝯtiᵉ tota illa latiᵗᵘᵈᵒ vniforᵉ extēſa
per ptē per quā extēdet͂: oīqꝫ gᵘ ipſiꝰ ꝯtiᵉ mouēte vniforᵉ:
motꝰ illiꝰ mobilis incipiēns ab extreᵒ eiuſdez medij ma-
nebit ꝯtinue vniformis deductis alijs īpedimētis ꝛ iuua-
mētis extrinſecis: ꝛ hoc eſt vlr verū vbi extremū inteſius
velociꝰ recedit ꝙ̄ idez mobile ſufficiat moueri cū iſto extreᵒ
vel equeᵉ: ſi motꝰ ad oēm punctū ſit ſm ꝓporᵗⁱᵒⁿᵉᵐ poᵉ ad
reſiᵃᵐ illi pūcto correſpōdentē: ſed tūc opꝫ imaginari mobile
eē idiuiſibile q̄ntitatiue: qꝛ alr multe ptes ſibi ſm diuerſas
ſui ptes reſiſterēt. Hec ꝯclō ſic demōſtrat͂: qꝛ ſi nō ſit vna
ſit.b. mediū nō reſiſtēs vel vacuū in quo ꝓgrediat͂.c. latiᵗᵘᵈᵒ
vniᶠ difformis vt ponit͂ in ꝯne: ꝛ ſit.a. mobile non variatū
in poᵃ incipiēs mouere in extremo a quo icipit iᵃ latitudo
ꝓgredi: ꝛ moueat͂ ꝯtinue ſm ꝓportionē ſue poᵉ ad reſiᵃᵐ
ſibi imediatā. ꝛ arᵉ ꝙ.a. ꝯtinue mouebit͂ vniᶠ: qꝛ nec inten-
det motū nec remittet: ġ ꝯtiᵉ mouebit͂ vniᶠ. ꝯñtia pȝ: ꝛ añs
arᵉ. ṗmo ꝙ per nullū tꝑs terminatū ad ṗnᵐ tꝑis intēdet mo-
tuz ſuū vł remittet: qꝛ ſi ꝑ aliqͦd tꝑs terminatū ad ṗnᵐ tꝑis
intēderet motū ſuū: ſit iᵈ.d. ꝛ ſit.e. gᵘ reſiᵉ quē hēbit in iſtāti
meᵒ.d. tꝑis: ꝛ arguit͂ ſic. tūc.a. mouebit͂ cū.e. gᵘ: vł ġ in iſto
inſtāti meᵒ mouebit͂ equeᵉ cū.e. gᵘ vel tardius vel velociꝰ.
Si equeᵉ vel tardiꝰ mouebit͂.a. tunc cū.e. gᵘ ꝛ ꝯtiᵉ añ illud
inſtās.a. mouebit͂ tardiꝰ ꝙ̄ in iᵒ inſtāti: qꝛ per poſitū.a. cō-
tinue intēdet motū per.d. tꝑs: ꝛ.e. ꝯtiᵉ vniᶠ mouebit͂: ġ ꝯtiᵉ
ante illud inſtās meᵐ mouebit͂.a. tardius.e. gᵘ: ꝛ ab eodez
puncto medij incipiūt.a. mobile ꝛ.e. gradus mouere: ergo
in iſto

in iſto iſtāti medio nō deueniet.a.ad.c.gᵐ.ꝯñs eſt ꝯtra poſitū.Si vo dī ꝙ.a.tūc mouebit velociꝰ.c.ꝛ ꝯtīᵉ itēdet motū.c.mouēte vnifor':ḡ imediate poſt illō inſtās meᵐ.d.a.ꝓcedet.c.ꝛ ꝑ ꝯñs incipiet in iſtāti medio mouere cū reſiᵃ maiori ꝙ̄ eſt.c.gᵒ.ꝛ ſi ſic mediate poſt iſtās meᵐ mouebit tardiꝰ ꝙ̄ in iᵒ iſtāti:ꝛ ꝑ ꝯñs nō per totū.d.tp̄s itēdet motū ſuū.ꝛ ſic de oī alio tp̄e termiato ad pñᵐ illiꝰ tp̄is totius eſt arguenᵐ:ꝙ.ſ.per idē tp̄s nō itēdet.Nec ꝑ aliqḋ tp̄s termiatū ad pñᵐ remittet motū ſuū:qa ſit.d.iᵒ tp̄or ſit.c.gdus reſiᵉ quē hēbit in medio iſtāti.d.tunc vt ꝓus ſi.a.mouebit equeloʳ cū.c.vel velociꝰ:ꝛ ꝯtīᵉ ante illō iſtās mouebit velociꝰ ꝙ̄ tunc:eo ꝙ remittet motū ſuū ꝯtīʳ.c.mouēte vniformiter:ꝛ ab eodē extreᵒ incipiūt mouere.a.ꝛ.c.ḡ.a.ꝓtūc erit vltʳ.c.ꝛ nō mouebit cum.c.ſi tūc mouebit tardiꝰ ꝛ ꝯtīᵉ remittet motū ſuū.c.mouēte vnifor'.ſeqͥt ḡ ꝯceᵈᵒ ꝙ imediate poſt idē iſtās meᵐ.c.ꝓcedet.a.ḡ poſt iᵒ inſtās mouebit cū reſiᵃ minori ꝙ̄ eſt.c.ꝛ ꝑ ꝯñs nō per totū illud tp̄s remittet motū ſuū.ſeqͥt ḡ ꝙ ꝑ nullū tp̄s termiatū ad pñᵐ remittet motū ſuū vel itēdet.Nec per aliqḋ aliud tp̄s itēdet motū ſuū vel remittet:qa ſi ſic ſignet illō iſtās in quo ꝓ incipit itēdē vel remittē:ꝛ ſit.c.gᵒ reſiᵉ quē ꝓtūc habeat:ꝛ argʳ ſic.a.tunc mouebit equeloʳ cū.c.ꝛ ꝯtīᵉ ante tardiꝰ:ꝛ ſi ſic incipiet.a.itēdē motū ſuū.c.mouēte vnifor':ſeqͥt ꝙ tūc incipiet.a.ꝓcedē.c.ꝛ ſi ſic tunc incipiet moueri cū maiori reſiᵃ ꝙ̄ eſt.c.ꝛ ꝑ ꝯñs tūc incipiet remittē motū ſuū ꝛ nō itēdere.ſi ēt tunc incipet remittē motū ſuū:ꝛ tūc.c.incipet ꝓcedē:ꝛ per ꝯñs tūc incipet.a.moueri cū reſiᵃ minori ꝙ̄ eſt.c.cū quo gᵘ in iſtāti dato mouebit.ꝛ ſi ſic/tunc incipiet itēdē motū ꝛ nō remittē:ꝛ ſi ſic/ſi tūc incipet itēdē:ſeqͥt ꝙ tūc incipiet remittē ꝛ eꝫ.ꝯñs ipoſſe.ſeqͥt ḡ ꝙ nunq̄ itēdet motū ſuū nec remittet:ꝛ per ꝯñs ꝯtinue mouebit vnifor'.¶ Exᵐ huius ſit reſiᵃ ab octo vſq ad nō gᵐ ꝓgrediēs in.b.meᵐ:ita ꝙ extreᵐ itēſius moueat ꝯtinue a ꝓporᵉ q̄drupla:ꝛ ſit.a.poᵃ vt octo:que.ſ.ad gᵐ eiꝰ mediū habeat ꝓporᵉˢ duplā:ꝛ ſeqͥt ꝙ.a.ꝯtinue manebit vnifor' mouēs a ꝓporᵉ duᵃ:qa ſi mouebit velociꝰ ꝙ̄ a ꝓporᵉ duᵃ ꝓcedet gᵐ vt 4ᵐ motū a ꝓporᵉ duᵃ:ꝛ per ꝯñs mouebit tūc a ꝓporᵉ minori ꝙ̄ duᵃ.ꝛ ſi mouebit tardiꝰ ꝙ̄ a ꝓporᵉ duᵃ mouebit cum reſiᵃ minori ꝙ̄ eſt gᵒ mediꝰ:ḡ nō pōt poni ꝙ moueat velociꝰ ꝙ̄ ille gᵒ vt 4ᵐ nec tardiꝰ:ꝛ per ꝯñs mouebit equelociter cū illo gᵒ.ꝛ ſi ſic ꝯtinue mouebit.a.vnifor' ſic iſte

2ᵃ ꝯclo gᵒ:qḋ fuit ꝓbādū.¶ Ex iᵒ deducit ꝙ vbicūq in tale vacuū ſeu meᵐ nō reſiſtēs inducit latiᵈᵒ vnifor' diffor ᵐ extreᵒ remiſſiori geſcēte:cuiꝰ oīs gᵒ ꝯtinue itēdat motū ſuū:ita tn̄ ꝙ latiᵈᵒ maneat vnifor' difforᵐ mobile incipiēs motū in

3ᵃ ꝯclo illo extreᵒ mouebit ꝯtinue velociꝰ ꝛ velociꝰ.¶ Et ſi qlibꝫ gᵒ remittat motū ſuū/illud mouēs remittet motū ſuum.
¶ Priᵐ ſic arʳ.nō pōt remittē motū ſuū nec mouere vniformiter:ḡ itēdet motū ſuum.Añs pȝ:qꝛ ſi mouet vnifor' ſit ille gᵒ.c.cū quo mouebit:tunc extᵃ mouebit vnifor' ſꝑ mouebit vniformiter cū eadē reſiᵃ:ḡ ſi tūc mouebit cū.c.ita ꝯtinue faciet:ꝛ.c.ꝯtinue itēdet motū ſuū:ḡ ꝛ idē mobile itēdet motū ſuū dū mouebit:ꝛ nō mouebit vnifor'.Si igit remittet motū ſuū per tp̄s termiatū ad pñᵐ tp̄is:ſeqͥt ꝙ in aliq iſtāti illiꝰ tp̄is erit ad aliquē gᵐ qui ſit.c.vel ḡ tūc mouebit equelociter cū.c.vel velociꝰ vel tardiꝰ:nō equelociter vel velociꝰ:qa cū ꝯtīᵉ remittat moᵐ:ꝛ.c.itēdat ꝯtīʳ ante id iſtās mouebit velociꝰ ꝙ̄.c.ḡ tūc nō erit ꝓciſe cum.c.ſꝫ vltra.c.ſeqͥt ḡ ꝙ tūc mouebit tardiꝰ ꝙ̄.c.ꝛ ꝑ ꝯñs.c.imediate poſt iſtās datū ꝓcedet.a.ꝛ ſic.a.imediate poſt id inſtās datū mouebit cū reſiᵃ minori ꝙ̄ eſt.c.ꝛ ſic incipiet itēdē motū ſuū:ꝛ ſic nō ꝑ totū tp̄s datū remittet moᵐ.nec pōt poni ꝙ ꝑ aliqḋ aliud tp̄s mouebit vnifor' vl remittet motū ſuū:qa ſi ſic ſit iᵒ iſtās.d.in q̄ incipiet moueri vnifor' vel remittē:ꝛ ſeqͥt ꝙ ꝯtīᵉ mouebit cū reſiᵃ minori ꝛ vſq ad.d.iſtās itēdet motū ſuū:ḡ ꝯtīʳ ante.d.iſtās erit vltra gᵐ reſiᵉ:quē tūc hēbit q ſit.c.ꝛ per ꝯñs tūc mouebit.a.tardiꝰ ꝙ̄.c.vl equelociter cū.c.qa ſi.a.tūc mouebit velociꝰ.c.ꝛ neutrū tunc in aliq ꝓporᵉ mouebit velociꝰ ꝙ̄ imeᵗᵉ ante illō iſtās:ſeqͥt ꝙ ad tp̄s teriatū ad idē iſtās.ſ.d.mouebit.a.velociꝰ.c.ꝛ ſꝑ ante illō iſtās erit vltʳ.c.vt ꝓdictū eſt.ḡ tūc erit vltra.c.ꝛ nō ad.c.ſeqͥt ḡ ꝙ tūc mouebit tardiꝰ ꝙ̄.c.vel ꝓciſe equelociter:ſi equelociter ꝛ.c.itendet motū ſuū:ꝛ.a.mouebit vnifor' vl remittet motū ſuū iux falſigraphū:ḡ tūc.c.incipiet ꝓcedē.a.ꝛ ꝑ ꝯñs.a.icipiet moueri cū reſiᵃ minori ꝙ̄.c.ꝛ ꝑ ꝯñs tūc icipiet itēdē motū ꝛ nō mouē vniformiter nec remittē:ſi ēt.a.tūc mouebit tardiꝰ ꝙ̄.c.illō idē ſeqͥt vt pȝ.ſeqͥt ḡ ꝙ.a.ꝯtīᵉ itēdet motū ſuū.¶ Cōſilʳ oīno ꝓbat 3ᵃ ꝯ ꝙ idē mobile nō poterit moueri vnifor' nec itēdē motū:vbi tn̄ ꝓus hī ꝙ nō remittet nec mouebit vniformiter:hic tn̄ hēat ꝙ nō pōt itendē nec moueri vnifor'.ꝛ pȝ vitas iſtiꝰ ꝯnis.¶ Cōtrā ꝯnē pᵃᵐ argʳ ſic.Sint ifiᵗᵃ media eq̄lia.b.ꝑ q̄ꝝ pmi medieᵗᵃᵗ extēdat.c.latiᵈᵒ vniformiter:ꝛ per 4ᵃᵐ 2ᵈ extēdat eadē latiᵈᵒ vniformiter:ꝛ per 8ᵃᵐ 3ᵘᵐ:ꝛ ſic in ifiᵐ ꝓgrediat illa latiᵈᵒ in oīa illa media ſic in.b.manēs vniformiter extēſa:ꝛ moueat.a.mobile in iſto meᵒ qḋ eſt.b.ꝛ termiet iſta reſiᵃ ad gᵐ.a.ꝛ in q̄libet illoꝝ meᵒʳᵘᵐ moueat poᵃ eq̄lis.a.q̄ poſito arguit ſic. ꝯtra pᵃᵐ ꝯnem.
Infiᵐ tarde icipit aliqḋ illoꝝ mobiliū moueri i aliq illoꝝ meᵒʳᵘᵐ:ꝛ tardiꝰ.a.ꝙ̄ aliqḋ illoꝝ:ḡ ifiᵐ tarde incipit.a.moueri.Maior argʳ ſic.Infiᵐ tarde incipet aliqḋ illoꝝ moueri ſtāte latiᵈᵉ nō mota in illis medijs:ſꝫ in nulla ꝓporᵉ incipit aliqḋ illoꝝ moueri velociꝰ ꝙ̄ ſi maneret latiᵈᵒ in illis medijs:ḡ ifinite tarde incipit aliqḋ illoꝝ moueri.Maior ſic pȝ:ifinita modica eſt pars ꝑ quā extēdit.c.latiᵈᵒ in aliq illoꝝ medioꝝ:ꝛ nunq̄ aliqḋ illoꝝ mobiliū ꝑtrāſiret ptē ꝑ quā extēdit illa latiᵈᵒ manēte illa latiᵈᵉ:qa mobile nō pōt ꝑtrāſire meᵐ vnifor' difforᵉ termiatū ad gᵐ ſuū vt arguitū eſt ꝓus.ḡ ſeqͥt ꝙ ifinite tarde ꝯtīᵉ mouebit aliqḋ illoꝝ mobiliū ſtāte latitudie nō mota in illis medijs.Et ꝙ in nulla ꝓporᵉ velociꝰ icipit aliqḋ illoꝝ mouē ꝙ̄ ſi maneret latiᵈᵒ nō mota:arguit ſic.ſi aliqḋ ſit tale ſit iᵒ.d.ꝛ ſuum meᵐ.c.ꝯ tardiꝰ incipit mouē in.c.ꝙ̄ in aliq meᵒ maiori pte per quā extēdit.c.latiᵈᵒ qḋ meᵐ maiꝰ cēt diſpoſitū.c.latiᵈᵉ ſic eſt illa pars.c.ſꝫ ifiᵐ modice velociꝰ incipit moueri in aliq maiori pte iſta.c.ꝙ̄ in.c.incipet mouē ſtāte ſua latiᵈᵉ:ḡ nūc in illa ꝓporᵉ velociꝰ icipit.d.mouē in.c.vel tardiꝰ remittē ꝙ̄ ſi latiᵈᵒ in eo nō ꝓgrederet.ꝯña pȝ ꝛ minor pȝ:qa ifiᵐ modice eſt aliqḋ maiꝰ pte iᵃ.c.ḡ lꝫ oīa maiora.c.cēnt ꝯſilʳ diſpoſita cū.c.ifinite modice velociꝰ incipet.d.mouē in aliq illoꝝ ꝙ̄ in.c.ſi ſtaret latiᵈᵒ in eo.pȝ ḡ minor.Et maior ſic arguit.Q̄cūq maiꝰ pte.c.ꝑ quā iᵃ latiᵈᵒ extēdit ꝑ magᵐ tp̄s manebit maiꝰ pte.c.per quā iſta latiᵈᵒ extēdit:extᵃ ſolū finite velociter ꝓgredit illa latiᵈᵒ ꝛ vltʳ vt ꝓbat in ſubo maiori ꝯſilʳ diſpoſito cum minori erit motꝰ velocior ꝙ̄ in minori:ḡ in q̄cūq maiori pte.c.per quā hec latitudo extēdit velocior icipit eē motꝰ ꝙ̄ in.c.ḡ ifinite modice velociꝰ incipit mouere in aliq maiori pte.c.data ꝙ̄ in illa pte ſtāte latiᵈᵉ per ipaꝫ:ḡ in nulla ꝓporᵉ velociꝰ icipit.d.mouē ꝙ̄ ſi latiᵈᵒ ſtaret oīno nō mota:ꝛ ſic de oī alio illoꝝ infiᵗᵒʳᵘᵐ mobiliū ꝙ in nulla ꝓporᵉ velociꝰ incipit aliqḋ illoꝝ mouere ꝙ̄ ſi in ſuis medijs ſtaret latiᵈᵒ oīno nō mota:ꝛ tūc ifinite tarde incipet aliqḋ illoꝝ mouere:ḡ nunc ifinite tarde incipit aliqḋ illoꝝ mouere.Añs ꝓbatū eſt ꝓus:ꝛ ſic pȝ maior pᵉ ꝯᵉ:ꝛ minor euiſdē.ſ.ꝙ.a.tardius incipit mouere ꝙ̄ aliqḋ illoꝝ:qꝛ pars reſiſtēs.a.incipit eſſe minor ꝛ ꝯtīᵉ erit minor pte per quā eadē latitudo extēdet in illis ifinitis:ḡ tardiꝰ incipit mouere.a.ꝙ̄ aliqḋ illoꝝ:qꝛ ſi equelociter incipiat mouere cū aliq illoꝝ/incipet equalʳ diſtare ab extremo.b.ſic iᵒ cū quo equelociter mouebit incipit diſta/

re ab extre' ſui mediu ꝛ ois gˢ reſiˢ erit ꝑpingor extremo remiſſiori.b.ꝗ͂ extre' illi' mediu qͦcuͣq3 illoꝝ iſiᵗⁱᵘᵐ ocẽ vt pꝫ.ꝗ cuꝫ maiori reſiᵃ incipit.a.mouere ꝗ͂ iᵘ mobile datũ:ꝛ per ꝯñs tardi' incipit.a.mouere.idẽ eſt arᵐ ſi dicat ꝙ aliqͦ illoꝝ tardi' incipiat mouere ipo.a.ꝙ.a.incipit cũ maiori reſiᵃ ꝗ͂ illõ.d.datũ:ꝛ per ꝯñs.a.nõ veloci' illo.ſeqꝫ ꝗ ꝙ a.tardi' incipit mouẽ ꝗ͂ aliqͦ illoꝝ:ꝛ vt ꝑus ĩfinite tarde incipit aliqͦ illoꝝ moueri:ꝗ ĩfinite tarde incipit.a.moueri:ꝛ ſic nõ ꝯtinue vnifor' mouebit.ꝗ ꝯ falſa. ¶ Ad idẽ ſic arguit. Ponat caſus ꝑpoſit' de illis ĩfinitis ꝑter B ꝙ ponat in illis eẽ ꝑgreſſus ꝙ hic omittat. Et ponat ꝙ ſtet latitudo in oib' illis. Et arguit ſic. ĩfinite tarde incipit aliqͦ illoꝝ iſiᵗᵒʳᵘᵐ in ſuo meᵒ moueri vt ꝑus argutũ eſt:eo ꝙ ĩfinite modicũ eſt reſiſtẽs reᵃ alicui' illoꝝ qͦ in nullo tpe finito trãſiet:ꝗ nõ eſt aliqua velocitas ita modica qn ſit dare aliqͦ illoꝝ medioꝝ in quo minori velocitate incipit eſſe mot' ꝗ͂ eſt illa velocitas.ꝛ ſi ſic gᵘ remiſſiori ꝗ͂ eſt gˢ vniformis quo poˢ.a.moueri in.b.incipit aliqͦ illoꝝ mobiliũ moueri:ꝛ tardi' incipit.a.ꝗ͂ aliqͦ illoꝝ:qa cuiuſlibꝫ illoꝝ eſt pars reſiſtẽs certe ꝗ͂titᵗⁱˢ ꝛ ĩfinite modice ꝗ͂titᵗⁱˢ incipit eẽ pars reſiſtẽs.b.ꝗ gᵘ remiſſiori ꝗ͂ eſt gˢ quo ponit.a.moueri vniformiter incipit.a.moueri: ꝛ per ꝯñs nõ ꝯtiᵉ vniformiter mouebit gradu dato qſcũq3 fuerit.ꝗ ꝯclõ falſa.

ꝯtra 2ᵃᵐ ¶ Cõſilr põt argui ꝯ 2ᵃᵐ ꝛ 3ᵃᵐ ponendo in 2ᵃ ꝯne ꝙ certe velociter incipiat extreᵐ illi' latiᵗᵘᵈⁱⁿⁱˢ terminate ad.a.mouẽ: qꝛ vt argutũ eſt qſcũq3 gˢ mot' dat gᵘ remiſſiori incipit.a.mouere:ꝛ ois gˢ hui' latiᵗᵘᵈⁱⁿⁱˢ certeuelociter incipit moueri:ꝗ qſcũq3 gˢ reſiˢ dat ille veloci' incipit moueri ꝗ͂.a.ꝗ nullus eſt gˢ reſiˢ cuꝫ quo tũc incipit moueri qñ incipit attingẽ:et in oi iſtãti hui' tpis itrinˢᵉᶜᵒ eſt dare certũ gᵐ reſiˢ cũ quo tũc mouebit:ꝗ aliqñ ante id inſtãs remittet motũ:qa tũc mouebit cuꝫ reſiᵃ maiori ꝗ͂ ꝑus. Seqꝫ ꝗ ꝯnẽ 2ᵃᵐ eſſe falſam.

ꝯtra 3ᵃᵐ ¶ 3ᵃᵐ ſilr arguit eẽ falſam:qa vt arᵐ eſt ĩfinite tarde incipit.a.mouere:ꝗ nõ ꝯtinue remittet motũ ſuũ:qa tũc ĩfini-

Solo te tarde moueret:qͦ eſt impoſſe. ¶ Pro iſtis videt ꝯceᵈᵒ ꝯnes ꝛ ad caſuꝫ in oppoᵐ qñ ponit de illis ĩfinitis admittat:ꝛ tũc ad pᵐ arᵐ negat ꝙ ĩfinite tarde incipit aliqͦ iſiᵗᵒʳᵘᵐ moueri:ꝛ ꝯcedit ꝙ nũc incipet aliqͦ illoꝝ iſiᵗᵒʳᵘᵐ ĩfinite tarde moueri ſi nõ ꝑgrederet latitudo reſiˢ in ſuũ mediũ. Et di ꝙ ĩfinite tarde incipet aliqͦ iſtoꝝ moueri ſi ſtaret eius latitudo que nũc mouet:ꝛ tũc qñ ponit ꝙ illõ ſit.d.negat caſus. Cui' cã eſt:qa di ꝙ nullũ eſt tale in quo in aliq̃ certa ꝑporᵗⁱᵉ veloci' incipit mouere ꝗ͂ ſi ſtaret ei' latitudo ſicut argᵐ hñ ꝑbat. Et cã hui' ſophiſmatis eſt:qa ĩfinite maior incipit eẽ pars per quã extẽdet latiᵗᵘᵈᵒ in aliq̃ illoꝝ ꝗ͂ nunc eſt:eo ꝙ ĩfinite modica eſt pars bõ alicui' illoꝝ:ꝛ certe velociter incipit latitudo in qͦlibet illoꝝ ꝑgredi:nullum tñ certũ in aliq̃ certa ꝑporˢ incipit hẽe ptẽ maiorẽ per quam extẽdat latiᵗᵘᵈᵒ quã nũc hꝫ:qa ſolũ finite velociter maiorat latitudo quo ad ptes ſubti. Exᵐ huius eſt ſatis familiare. Sint ĩfinita:q̃rũ pᵐ ſit aliquãtũ:ꝛ 2ᵐ in duplo min':ꝛ 3ᵐ in q̃druplo minus:ꝛ ſic in iſiᵐ:ꝛ incipiãt eq̃uelociter oĩa acq̃rere de q̃ntitate ſine dꝑditõe q̃ntitatis:ꝛ ſeqꝫ ꝙ ĩfinite maius incipit aliqͦ illoꝝ eẽ ꝗ͂ ipm nũc eſt:qa ĩfinite modicũ eſt aliqͦ illoꝝ ꝛ certeuelociter acq̃rẽs de q̃ntitate:ꝛ tñ qͦcũq3 dat in nulla ꝑporˢ incipit eẽ mai' ꝗ͂ ipm eſt:qa quecũq3 ꝑporᵒ dat tꝑs erit antecꝗ͂ aliqͦ certũ illoꝝ per tantã ꝑportionẽ maiorabit:ꝛ ſic oĩno eẽt in ꝑpoſito:ꝙ.ſ.per ĩfinituꝫ modicũ plus incipit iſta latitudo extẽdi in aliquo ꝗ͂ nũc extẽdat:ꝛ in nullo certo per ſubm in aliq̃ ꝑporᵗⁱᵉ mai' vt ꝯſtat:ideo nũc incipet ĩfinite tardius moueri in aliq̃ illoꝝ ſtãte ſua latitudine nõ mota ꝗ͂ nũc incipit:ꝛ tñ nullũ eſt illõ in quo certa ꝑportiõe tardi':ꝛ ſic nõ ꝑcedit arᵐ:qa depẽdet ſup B ꝙ ĩfinite tarde incipit aliqͦ illoꝝ moueri: qͦ B negat. ¶ Ad 2ᵐ argᵐ ꝯcedit ꝙ ĩfinite tarde incipit aliqͦ illoꝝ iſiᵗᵒʳᵘᵐ moueri ſtãte latitudine in q̃libet.ꝛ negat ꝯñtia vlteri' qñ ꝯcludit ꝙ nulla eſt velocitas ita modica qn minori illa certũ illoꝝ incipit moueri:qa detur gˢ quo ſufficit moueri cũ extreᵒ remiſſiori illi' latiᵗᵘᵈⁱⁿⁱˢ:cuꝫ in oi certo illoꝝ q̃libet gˢ reſiˢ per certã diſtantiã diſtat ab extreᵒ: ideo nõ eſt gˢ aliqs reſiˢ itrinˢᵉᶜᵘˢ in aliq̃ certo illoꝝ quo incipit aliqͦ iſtoruꝫ moueri:ꝛ quo.a.incipit moueri:ideo in nulla ꝑporˢ minori in aliq̃ certo medio illoꝝ incipit aliqͦ illoꝝ mobiliũ moueri ꝗ͂ eſt gˢ velocitatis quo ſufficit moueri cũ extremo remiſſiori illi' latiᵗᵘᵈⁱⁿⁱˢ terminati ad certũ gᵐ reſiˢ:ꝛ ſi terminet ad nõ gᵐ reſiˢ nullꝰ eſt gˢ mot' dat' quo ꝑciſe incipit mouẽ:ſꝫ magnũ tꝑs erit antecꝗ͂ ad talẽ gᵐ motus reᵃ alicui' illoꝝ certi remittet:qa cuꝫ ĩfinite ꝑpinquus eſt q̃libet gˢ illius latiᵗᵘᵈⁱⁿⁱˢ extreᵒ remiſſiori alicui' illoꝝ medioꝝ:qa ꝑ ĩfinitã modicã ptẽ extẽdit in aliq̃:ideo non eſt aliqs gˢ cũ quo ſufficit illõ mobile mouere qn ad id ſubito deueniet deducta ꝑgreſſione illi' latiᵗᵘᵈⁱⁿⁱˢ:qa ſignet gᵈus qſcũq3 cuꝫ quo ſufficit mouere:et ſeqꝫ ꝙ ſi latiᵗᵘᵈᵒ ab illo gᵘ vſq3 ad extreᵐ remiſſius per aliquãtulũ extẽderet in aliq̃ tpe poſſet mobile eq̃le.a.ad illũ gᵐ deuenire ꝛ totã ptẽ ꝑ quã extẽdit trãſire:ꝛ per min' poſſet extẽdi:ita ꝙ illõ mobile in duplo minori tpe ad illũ gᵐ deueniret: ꝛ ſic in iſiᵐ: ſic ꝑbat in vna ꝯne de inductiõe gᵈus ſũmi:vbi ꝑbat ꝙ ꝑporˢ ſicut vnũ ſubm vnifor' difforme alio ſubo ꝯſili eſt min':ita ab eodẽ mobili i minori tpe poterit ptrãſiri. Cũ ꝗ qſcũq3 gˢ latiᵗᵘᵈⁱⁿⁱˢ ꝑgredientis in.b.per infiᵐ modicũ diſtet ab extreᵒ remiſſiori alicuius illoꝝ medioꝝ:ſeqꝫ ꝙ ſubito deueniet mobile eq̃lis poˢ cuꝫ.a.ad oẽm gᵐ illi' latiᵗᵘᵈⁱⁿⁱˢ ad quẽ ſufficit in aliq̃ tpe deuenire:ꝛ ſic infinite tarde incipit aliqͦ illoꝝ mobiliũ in aliq̃ illoꝝ medioꝝ mouere ſtãte latitudine in illis:ꝛ tñ nulla eſt velocitas q̃ incipit aliqͦ certũ illoꝝ moueri citra gᵐ quo ſufficit in extremo remiſſiori iſti' latiᵗᵘᵈⁱⁿⁱˢ mouere:ꝛ ſic nõ ꝑcedit arᵐ.imo ꝯcedẽdũ eſt ꝙ qͦcũq3 illoꝝ veloci' incipit moueri ipo.a.ꝛ tñ.a.certeuelociter:ita ꝙ nõ gᵘ remiſſiori ꝛ ĩfinite tarde incipit aliqͦ illoꝝ moueri. Si.n.latiᵗᵘᵈᵒ terminet ad nõ gᵐ ĩfinite velociter incipit qͦlibet illoꝝ moueri:qa cuꝫ iſiᵐ modica reſiᵃ ꝛ.a. ſoluꝫ gᵘ finito quo.b.ꝯtiᵉ mouebit vnifor':ꝛ tñ ĩfinite tarde incipit aliqͦ illoꝝ moueri:vt ꝑbatũ eſt.ꝛ ſic ſubito remittet aliqͦ illoꝝ a gᵘ infinito vltra quẽcũq3 gᵐ q̃ntũcũq3 remiſſius fuerit. Si tñ latitudo terminet ad duos gᵘ nõ eſt aliqs gᵈus itrinſecus qn cuꝫ minori incipit qͦlibet illoꝝ moueri:qa qͦlibet illoꝝ iſtaꝫ latiᵗᵘᵈⁱⁿᵘᵐ ſucceſſiue ptrãſiret:ꝛ aliqs eſt cert' gˢ itrinſecus reſiˢ cũ quo.a.ꝯtinue mouebit: ꝛ tñ ĩfinite tarde incipit aliqͦ illoꝝ moueri:qa per ĩfinitũ modicuꝫ ꝯtinue diſtat aliqͦ ab extremo itẽſiori ſue latiᵗᵘᵈⁱⁿⁱˢ nunq̃ ad idẽ extreᵐ deueniẽs:ꝗ ĩfinite tarde ante qͦcũq3 iſtãs mouebit aliqͦ illoꝝ:qͦ fuit ꝑbãdũ. ¶ Et per B videt ad arᵃ facta ꝯ alias duas ꝯnes:qa ille fundant ſup B ꝙ ĩfinite tarde incipit.a.mouẽ qͦ eſt negatũ:ꝛ ſoluit argᵐ ad B factũ ꝛc. ¶ Si in mediũ nõ q̃lificatũ vel nõ reſiſtẽs 4ᵃ ꝯclo

inducat latiᵗᵘᵈᵒ vnifor' difformis extreᵒ remiſſiori qſcẽte: cui' q̃libet gˢ a nõ gᵘ vnifor' intẽdat motũ ſuũ:poᵒ ad quã terminat iᵃ latiᵗᵘᵈᵒ in extreᵒ itẽſiori incipiẽs moᵐ in extreᵒ a quo incipit latiᵗᵘᵈᵒ ꝑgredi tardi' ꝛ tardi' itẽdet motũ ſuũ ſi latiᵗᵘᵈᵒ maneat ꝯtinue vnifor' extẽſa. Or.n.itẽdet motũ ſuũ ſatis argutũ eſt ꝯne 2ᵃ:ꝛ tũc arguit ſic.nõ põt poni qͦ itẽdet motũ ſuũ vnifor' nec veloci' ꝛ veloci':ꝗ tardi' ꝛ tardi' itẽdet. Et ꝑ arguit ꝙ nõ põt poni:ꝙ.ſ.vnifor' itẽdat motũ ſuũ:qa a nõ gᵘ mot' incipit mot' ei' itẽdi:ꝗ ſi vniformiter intẽderet in triplo plus ptrãſibit in 2ᵃ medietate illi' tpis ꝗ͂ in pᵃ:ſicut ꝑbatũ eſt in ꝯne.30.2ᵃ ſuppõne eiuſdẽ ꝯnis in de motu locali.ꝯñs eſt falſuꝫ.ſꝫ añs ꝑ arguit ſic. Si nõ ĩfinite tarde incipit moueri cũ extreᵐ itẽſius illi' latiᵗᵘᵈⁱⁿⁱˢ ĩfinite tarde incipit mouere:ſeqꝫ ꝙ incipit moueri cũ extreᵒ

itẽſiori

intenſiori illi⁹ lati^tudi^nis: ⁊ ēt incipit ꝑcedere illud extre^mū: ⁊ per ɔñs cuiꝫ reſi^a extremi intēſioris ſit eq̄lis ſue po^e: ſeq̄t ꝙ infinite tarde incipit moueri: q̄a a ꝓpor^e eq̄litatis ſeu infinite modica ꝓpor^e maioris ineq̄litatis: qḋ fuit ꝓbādū. Patet ḡ aña iſti⁹ ɔñtie: ⁊ falſitas ɔñtis arguit̄ ſic. ſi id ſit verū ſit. c. g^s reſi^e ad quē in fine illi⁹ tp̄is deueniet. ⁊ arguit̄ ſic. c. vniformiter intēdet motū ſuū a nō g^u: ḡ in triplo plus ptrāſibit in 2ª medietate iſti⁹ tp̄is q̄ȝ in p^a: ⁊ per ɔñs. c. in fine in q̄druplo plus diſtabit ab extremo illius medij qḋ mediū ſit b. a quo incipit lati^tudo ꝑgredi q̄ȝ in inſtāti medio. ⁊ ſi ſic in iſtāti medio erit. c. ad pūctuꝫ terminātē p^m 4^m toti⁹ ptrāſeundi a. c. in iſto tp̄e. Si ēt illud mobile vniformiter intēdet mo^tum in triplo plus ptrāſibit in 2^a medietate tp̄is q̄ȝ in p^a: ḡ in iſtāti medio erit ſolū 4ª toti⁹ trāſeūdi in iſto tp̄e ptrāſita: ⁊ illa eadē 4^a in iſto iſtanti medio erit ptrāſita a. c. g^u. ḡ iſtud mobile in iſtāti medio mouebit̄ cuꝫ. c. g^u: ⁊ in fine ſi^lr per poſitū: ḡ in fine mouebit̄ equal^r ꝑciſe ſicut in iſtāti medio. ɔñs falſū: eo ꝙ ɔtinue intēdet motū ſuū. ſeq̄t̄ ḡ ꝙ nō vnifor^r intēdet motū nec veloci⁹ ⁊ veloci⁹: q̄a ſi ſic cū a nō g^u incipit mot^u ei⁹ intēdi: ſeq̄t ꝙ in 2ª medietate ptrāſibit plus q̄ȝ triplū ad illud qḋ ptrāſibit in p^a medie^te iſtius tp̄is: ſic ꝓbatū eſt in ɔ̄ne 30^a. vbi tāgit̄ de motu locali. ⁊ p ɔñs in iſtāti medio nō erit 4ª toti⁹ ptrāſeūdi ab eo in toto tp̄e ptrāſita. ſit ḡ. c. gradus ad queꝫ in fine deueniet: ⁊ ſeq̄t̄ vt ṗus ꝙ ptrāſibit 4^m iſti⁹ ſpatij in p^a medietate tp̄is. ⁊ ſi ſic plus ptrāſibit. c. in p^a medietate tp̄is q̄ȝ illud mobile: ⁊ per ɔñs in iſtāti medio mouebit̄ iſta po^a cū g^u reſi^e remiſſiori q̄ȝ eſt. c. cuꝫ in fine mouebit̄. c. g^u: vt poſitū eſt. ḡ in fine mouebit̄ tardi⁹ q̄ȝ in iſtāti medio. ɔñs falſū: q̄a per totū tp̄s illud intēdet motū ſuū. ſeq̄t̄ ḡ ꝙ nō pōt poni ꝙ intēdat iſta po^a motū ſuuꝫ vniformiter n^c veloci⁹ ⁊ velocius: ideo intēdet motū ſuū tardi⁹ ⁊ tardi⁹: q̄a ſi nō tardius ⁊ tardius intēderet: ḡ vniformiter intēderet vel veloci⁹ ⁊ veloci⁹:

5ª ɔclō nōda — ex q̄ mediū erit vniformiter diffor^e. ¶ Pro quo p̊ eſt notādū ꝙ vbi talis lati^tudo mouet̄: ⁊ po^a etiā mouet̄ v̄ſus extre^mū intēſius: ita tñ ꝙ re^o ſui decreſcat reſi^a: data veloci^te qua creſceret reſi^a re^o illi⁹ mobilis ſic mouētis in illa lati^tudi^ne: q̄ſcēte illa latitudine: ⁊ data ēt velocitate qua decreſceret reſi^a re^o illi⁹ mobilis q̄ſcētis oīno per motū illi⁹ lati^tudi^nis: exceſſui vni⁹ velocitatis ſup aliā decremētū illi⁹ reſi^e per mo^tum mobilis ⁊ motū illi⁹ lati^tudi^nis corrn̄det. h̄ pꝫ vt ſi decremētū eēt vt octo ſtāte mobili ⁊ cremētū vt 4^{or} ſtāte latitudine: reſi^a iſta decreſcet g^u vt 4^{or}: q̄a ſi tātū vel ſolū decreſceret reſi^a iſta velocitate vt 4^{or} ſtāte mobili ſic creſceret re^o mobilis ſtāte latitu^di^ne: reſi^a neq̄ decreſceret nec creſceret re^o illius mobilis moti velocitate vt 4^{or}. Sꝫ nunc in duplo veloci⁹ decreſceret reſi^a ſtāte mobili q̄ȝ tūc: ḡ nūc decreſcet re^o illius mobilis moti velocitate vt 4^{or}: ⁊ ſic de oī alia veloci-

6ª ɔclō nōda — tate eſt arguēdū. ¶ Ex h̄ deducit̄ ꝙ ſi ad vnū pūctū vel g^m in h̄ medio ꝑgredīete latitu^dine intēdat̄ mot⁹ aliq̄ velocitate ad g^m minorē reſi^e pro eodē iſtāti tardi⁹ intēdet̄ motus q̄ȝ ad illū g^m magis reſiſtētē ſiue illa latitudo reſi^e terminet̄ ad nō g^m ſiue ad certū g^m in extremo ſuo remiſſiori. Et p̊ arguit̄ illud vbi latitudo terminat̄ ad non g^m: ⁊ ſit nūc. a. cuꝫ aliq̄ g^u: ita ꝙ intēdat motū ɔtinue qui ḡdus ſit. b. ⁊ ſit. c. vnus gradus remiſſior: ⁊ ꝓbat̄ ꝙ ſi. a. poneret̄ ad. c. tardi⁹ intēderet motū q̄ȝ nūc intēdit ad. b. vel ꝙ nō intēderet ad. c. ſicut eēt ſi. c. moueret̄ eq̄uelociter ſicut. a. ſufficeret cuꝫ eo vel tardi⁹. Sit eniꝫ. d. mouēs cuꝫ. c. in ea ꝓpor^e tardi⁹ q̄ȝ. a. cū. b. in qua ꝓpor^e. c. gradus eſt remiſſior g^u. b. tūc ſic notū eſt: ſicut. c. gradus eſt remiſſior. b. ita tardi⁹ mouet̄: ex q̄ latitudo ɔtinue manebit vniformiter difformis terminata ad nō g^m: que ꝓportio ſit. f. tūc ſic in. f. ꝓpor^e tardi⁹ mouet̄. c. q̄ȝ. b. ⁊ ēt. d. in eadē ꝓportiōe tardi⁹ q̄ȝ. a. vt poſitū eſt. ḡ tāta erit ꝓpor^o mot⁹. c. ad motū. d. ſicut mot⁹. b. ad motū. a. ⁊ p ɔñs eq̄uelociter intēdet. d. motū ſuū ſicut. a. ſuū. ɔñtia pꝫ: q̄a in. f. ꝓportiōe tardi⁹ creſcet reſi^a re^o. d. q̄ȝ re^o. a. ſtāte latitudine nō mota: q̄a mediuꝫ eſt vniformiter difforme: ⁊. d. in. f. ꝓportiōe tardius mouet̄ q̄ȝ. a. cū ḡ decremētū reſiſtētie re^o. d. eēt in. f. ꝓportiōe maius ſi. d. q̄ſceret mota latitudine q̄ȝ cremētū eēt re^o. d. ſi q̄ſceret illa lati^tudo ita ēt eēt de. a. q̄a ḡdus illi. b. c. in. f. ꝓportione veloci⁹ mouerent̄ q̄ȝ. d. a. ſeq̄t̄ ꝙ in. f. ꝓportiōe tardi⁹ decreſceret nūc reſi^a re^o. d. q̄ȝ re^o. a. ɔñtia pꝫ per primā ɔ̄nē: q̄a in. f. ꝓportiōe minor eēt exceſſus decremēti reſiſtētie. d. ſupra ſuū cremētuꝫ ſi ſtaret latitudo: q̄ȝ eēt re^o. a. eo ꝙ q̄n̄ ſunt duo ad que alia duo h̄n̄t ꝓportiōes eq̄les: ſic vnū illoꝝ duoꝝ eſt alio min⁹: ita id qḋ ſibi ꝓportionat̄ per min⁹ ipm̄ excedit q̄ȝ illud ꝓportionatū maiori excedat maius: ſic ṗus eſt ꝓbatū. Tūc arguit̄ ex ɔñti in. f. ꝓportione tardi⁹ decreſcit reſi^a. d. q̄ȝ reſi^a. a. ⁊ reſi^a. d. eſt in. f. ꝓportione minor q̄ȝ reſi^a. a. per poſitū: ḡ eq̄uelociter intēdit. d. motū ſuuꝫ ſicut. a. ſuū: q̄a eque ꝓpor^r decreſcūt ſue reſiſtētie: ſꝫ tardius intēderet. a. motū ſuuꝫ ad. c. g^m q̄ȝ. d. ḡ ad. c. tardius intēdet. a. q̄ȝ ad. b. ɔñtia pꝫ ⁊ minor ſic arguit̄. minor eēt ꝓportio mot⁹. c. ad motum. a. ſi eēt. a. ibi q̄ȝ mot⁹. c. ad motuꝫ. d. ad eūdē g^m: eo ꝙ. a. eſt maioris po^e q̄ȝ. d. ⁊ velocius ſufficit mouere q̄ȝ. d. ad. c. g^m: ḡ cū reſi^a nō decreſcet ibi ſtātib⁹. a. d. niſi per motū. c. ḡ ſeq̄t ꝙ ſtātibus. a. d. per motū. c. eq̄uelociter decreſceret reſi^a re^o illoꝝ ad. c. g^m: ⁊ velocius creſceret reſi^a re^o. a. ad. c. g^m q̄ȝ re^o. d. ſi ſtaret iſta latitudo nō mota: q̄a mot⁹. a. eſt ibi velocior motu. d. ḡ minor eſt exceſſus decrementi reſiſtētie re^o. a. ſi. a. ſtaret ad. c. g^m mota latitudine ſupra cremētū ſue reſi^e ad eūdeꝫ g^m q̄ſcēte illa latitudine: q̄ȝ eēt vnum ſupra aliud. ſ. decremētū ſupra cremētū in cōparatione ad. d. ḡ per primā tardius ad. c. g^m decreſcet reſi^a re^o. a. q̄ȝ re^o. d. ⁊ per ɔñs tardius intēdet. a. motū ſuuꝫ ad. c. q̄ȝ. d. ad. c. ⁊ per ꝓbatū eq̄uelociter intēdet. d. cū. c. g^u ſicut. a. cū. b. ḡ tardius intēdet. a. motū ſuū cuꝫ. c. q̄ȝ cuꝫ. b. qḋ fuit ꝓbādū. Et ſic pꝫ illa ɔclō vbi latitudo reſiſtētie terminat̄ ad nō g^m. Eadē etiā ꝓbat̄ vbi latitudo reſiſtētie terminat̄ ad g^m: q̄a vt ṗus moueat̄. a. cū. b. gradu cuꝫ quo intēdet motū ſuū: ⁊ ſit. c. gradus remiſſior q̄ȝ. b. ⁊ arguit̄ ꝙ. a. tardius intēdet motū ſuuꝫ ad. c. q̄ȝ ad. b. mouet̄ eiꝫ. c. in. f. ꝓportiōe tardius q̄ȝ. b. ⁊ mouet̄ etiā. d. cū. c. in. f. ꝓportione tardius q̄ȝ. a. cū. b. ⁊ ſeq̄t̄ ex q̄ latitudo illa mot⁹ nō terminat̄ ad non g^m ꝙ maior eſt ꝓportio mot⁹. b. ad motū. c. q̄ȝ eſt. b. ad. c. Si. n. latitudo reſiſtētie terminat̄ ad nō g^m: ſic etiā latitudo mot⁹ vniformiter difformis tāta foret ꝓportio mot⁹. b. ad motū cuiuſcūq̄ alterius ḡdus ſicut eēt ꝓpor^o. b. ad gradū talē: ſed nūc ad oēm pūctū eſt maior reſi^a q̄ȝ tūc eēt ꝑterq̄ȝ ad. b. ḡ nūc eſt maior ꝓportio mot⁹. b. ad motuꝫ cuiuſcūq̄ alteri⁹ gradus q̄ȝ eſt ꝓpor^o. b. ad gradū talē. Ex q̄ arguit̄ oīno ſicut ṗus ꝙ in. f. ꝓportiōe tardius decreſcit reſi^a ad. c. g^m re^o. d. q̄ȝ decreſcat ad. b. re^o. a. ⁊. c. gradus nō eſt in. f. ꝓportione minor q̄ȝ. b. vt arguituꝫ eſt. ḡ tardius ꝓportional^r decreſcet reſi^a. d. q̄ȝ reſi^a. a. et ſi ſic tardius intēdet. d. motū ſuuꝫ q̄ȝ. a. ſuū. Sꝫ per ṗus arguituꝫ ad. c. g^m tardius intēdet. a. motū ſuuꝫ q̄ȝ. d. ſuū ad eūdeꝫ g^m. ḡ ſeq̄t ꝙ tardius intēdet. a. motū ſuum ad. c. q̄ȝ ad. b. qḋ fuit ꝓbādū. ¶ Ex h̄ h̄r ꝙ vbi intēdit vna po^a motū ſuū ad aliquē gradū reſiſtētie mota latitudine mō dicto, oīs po^a maior que ibi intēderet motū ſuuꝫ tardius intēderet q̄ȝ po^a data oīs que minor velocius intēderet ad illū gradū q̄ȝ maior. ⁊ infinite tarde intēderet aliq̄ po^a motū ſuū cum illo gradu. ¶ Prima pars huius ɔ̄nis arguit̄ ſicut in prima ɔ̄ne arguitū eſt de. a. d. potētijs: q̄a v̄l̄r po^a maior velocius mouet̄ ad eūdeꝫ g^m q̄ȝ po^a minor: ideo re^o maioris minor eſt exceſſus decremēti reſiſtētie qḋ eēt ſi ſtaret po^a non mota ſupra cremētuꝫ qḋ eēt ſtāte latitudine q̄ȝ re^o potētie minoris: ⁊ illi exceſſui corrn̄det decremētum reſi^e: vt pꝫ ɔ̄ne q̄ȝ — 7ª ɔclō

ideo maioꝛ po^a tardius īcedet motū q̄ minoꝛ ad eūdē g^m.
pꝫ ꝙ p^a pars iſtius ꝯnis.2^a etiā pars ſic arguit̄. Dato g^o tali
ꝯtingit accipe po^a que equelociter moueret̄ cū iſto g^o ſicͨ
ille gradus mouet̄:⁊ ſeq̄t ꝙ iſta po^a nō īcedet motū ſuū.
nulla eſt.n.ꝓpoꝛtio decremēti reſi^e ſi ſtaret po^a ſupra cre-
mētū ſi ſtaret latitudo nō mota:vel ſaltē īfinite tarde inci
peret īcedere motū ſuū:ꝙ cū īfinite modice tardius pōt
aliq̄ po^a moueri q̄ illa po^a data ⁊ h̄ cū eodē g^o:pꝫ ꝙ īfini
te tarde pōt aliq̄ po^a ad illū g^m īcedē motū ſuū:qḋ fuit in-
8^a ꝯclo tētū. ¶ Ex p̄dictis pōt deduci ꝙ eſt dare minimā veloci-
tatē qua po^a ad g^m datū q̄ſcūq̄ fuerit illi^o lati^{nis} ſic moue-
vt ꝓbat̄ ꝯne 4^a ⁊ aliꝫ ſeq̄ntib^o:nō pōt īcedē motū ſuū
ad pūctū ſignatū:ſꝫ oī velocitate minoꝛi pōt īcedē motū
ſuū aliq̄ po^a ad illū pūctū. Sit eiꝫ.c.vnus gradus illi^o lati
tudinis q̄ſcūq̄ fuerit nō eſt cura:tūc.c.certevelociter mo-
uet̄.ꝙ ſi ibi ſtaret po^a nō moueret̄ reſi^a illi^o per motū illi^o lati-
tudinis certa velocitate decreſceret vt ꝯſtat.det̄ ꝙ veloci-
tas īceſſionis mot^o.ꝯn̄s illud decremētū factū re^e alicuius
po^e nō variate in po^a.⁊ ſic ſeq̄t ꝙ nulla po^a pōt cū.c.cum
iſto motu lati^{nis} īcedē motū ſuū:q2 oīs po^a ibi mouēs ali-
qualr̄ velociter ad illū g^m acq̄rit de reſi^a ſi nō moueret̄ il-
la lati^{do}:ꝙ tardius decreſcet reſi^a re^e ei^o q̄ ſi nō moueret̄.⁊
ſi ſic nō īcedet motū velocitatis tāto decremēto coꝛriſdē-
te q̄tū cēt decremētū ſtāte iſta po^a nō mota:ſꝫ cū velo-
citate minoꝛi pōt:q2 vt ṗus argutū eſt:infinite tarde pōt
po^a aliq̄ ad iſtū g^m īcedere motū ſuū. Silr̄ aliq̄ velocitate
decreſceret iſta reſi^a ſtāte po^a:⁊ ꝯtingit accipe po^a aliquā
re^e cui^o equelociter incipet reſi^a creſcē re^e latitudinis ſi nō
moueret̄.ſ.po^a que ꝯtinue moueret̄ cū illo gradu eq̄uelo
citer ſic ille gradus. Etiā ꝯtingit accipe aliquā po^a eq̄lē il
li reſi^e que nō ſufficeret cū gradu illo mouere:ꝙ īfinite tar
de creſceret reſi^a re^e alicui^o po^e ad illū.c.g^m ſtāte latitudi-
ne nō mota:⁊ ſic nō eſt aliquis exceſſus īter g^m decremēti
qḋ cēt per motū illi^o latitudinis ⁊ nō g^m cremēti ſtāte po^a
q̄n minoꝛ pōt cē exceſſus īter h̄ decremētū ⁊ cremētū qḋ
cēt per motū mobilis quieſcēte latitudine illa:ꝙ nulla eſt
velocitas minoꝛ illa velocitate tali decremēto coꝛriſdēte:
q̄n ita modica pōt po^a aliq̄ in tali medio īcedē motū ſuū.
¶ Itē dato medio in cuius vna pte īcedat latitudo ꝑgre
diēs mō dictorita ꝙ q̄libet gradus īcedat motū ſuū q̄ſcē-
te extremo remiſſioꝛi nō eſt aliq̄s gradus illi^o lati^{nis}:q2 cō
tingit accipe po^a:que ſi cēt applicata ad g^m illū īcederet
motū ſuū ſiue latitudo terminet̄ ad nō g^m vel ad g^m in ex-
tremo ſuo remiſſioꝛi:q̄ſcūq̄.n.gradus det̄ iſte aliq̄ veloci
tate mouet̄.⁊ h̄ loq̄ndo de gradib^o īrinſecis iſti^o latitu-
dinis.ꝙ ꝯtingit accipe po^a aliquā que minoꝛi velocitate
pōt mouere cū illo gradu q̄ ſit velocitas qua iſte gradus
mouet̄:⁊ talis po^a cū illo gradu īcederet motū ſuū:q2 gra
dus ille ipm p̄cederet:vt manifeſte pꝫ. Alis pꝫ:q2 dato g^o
aliq̄ reſi^e cū iſta po^a aliq̄ pōt aliqualr̄ velociter mouere ⁊
in du^o tardius pōt alia po^a cū eadē mouere:⁊ ſic in īfi^m vt
9^a ꝯclo ꝯſtat.ſeq̄t ꝙ ꝯclo. ¶ Silr̄ ſi ſint duo media per q̄rū ptes
ineq̄les nūc extēdant̄ ille latitudines oīno ꝯſiles vnifoꝛ^r
diffoꝛmes:⁊ q̄libet gradus moueret̄ īcedēdo motū ſuū in
vtroq̄ medio manēte latitudine vnifoꝛ^r diffoꝛmi:vnifoꝛ^r
ꝯtinue extēſa:ita ꝙ ꝓpoꝛ^r ſicut vna pars medij eſt maioꝛ
pte per quā in alio medio extēdit̄ illa lati^{do}:ſic ſit motus
cuiuſlibet g̃dus in iſto maioꝛi velocioꝛ q̄ in minoꝛi eadē
po^a ad oēs punctū maioꝛis velocius īcederet motū q̄ ad
punctū coꝛriſdētē minoꝛis. h̄ ſic arguit̄. Sit pars per quā
extēdit̄ in vno medio in.f.ꝓpoꝛ^e maioꝛ pte per quā extē-
dit̄ in alio medio:⁊ in eadē ꝓpoꝛ^e veloci^o ꝑgrediat̄ lati^{do}
illa in maioꝛi q̄ in minoꝛi:⁊ ſit.a.po^a aliq̄:⁊ arguit̄ ſic. Det̄
gradus illi^o lati^{nis}:⁊ ſeq̄t ꝙ iſte gradus ⁊ oīs alius illi^o lati
tudinis in.f.ꝓpoꝛ^e veloci^o mouet̄ in medio maioꝛi q̄ mi-
noꝛi:⁊ pars per quā extēdit̄ in medio maioꝛi eſt etiā in.f.
ꝓpoꝛ^e maioꝛ pte per quā extēdit̄ in minoꝛi:ꝙ eq̄uelociter
decreſcet reſi^a in maioꝛi ſicͨ in minoꝛi: ſi mobile ad g̃dus
coꝛriſdētes q̄ſceret:⁊ cū ēt mobile aliud eq̄uelociter mo-
uebit̄ in medio minoꝛi ſicͨ maioꝛi cū eodē g^o reſi^e:ſeq̄t ꝙ
in maioꝛi medio tardius ſibi creſceret reſi^a ſi non foret ꝓ-
greſſio iſti^o lati^{nis}:⁊ ꝑ ꝯn̄s in iſto medio maioꝛi eſt maioꝛ
exceſſus decremēti qḋ cēt ſtāte mobili ⁊ mota latitudine
ſupra cremētū qḋ cēt per motū mobilis ſtāte latitudine
nō mota q̄ in minoꝛi qḋ fuit ꝓbanḋ:⁊ per 5^{am} ꝯneꝫ illi ex-
ceſſui decremētum dicte reſi^e coꝛriſdet:ꝙ veloci^o decreſcit
ſibi reſi^a in medio maioꝛi q̄ minoꝛi:⁊ ꝑ ꝯn̄s in medio ma
ioꝛi veloci^o īcedet motū ſuū q̄ in minoꝛi.ſeq̄t ꝙ ꝯcluſio.
¶ In opp^m ꝯnis 4^e ſic arguit̄. Infinite tarde incipit īcē- ꝯtra 4^m
dere motū ſuū:ꝙ nō īcedet tardius ⁊ tardi^o.ꝯn̄s pꝫ ⁊ an̄s ꝯnem.
arguit̄ ſic:ex q̄ illud mobile nō īcedet motū ſuū niſi ꝑ de-
cremētū reſi^e:⁊ ſub certo g^o incipit cū ſua reſi^a vel certo
g^o reſiſtētie īceſſioꝛi:⁊ in infi^m tarde incipit reſi^a re^e ſui de-
creſcere:q2 gradus īfinite tarde incipit īcedē motū ſuū.ꝯn̄a
pꝫ ⁊ an̄s arguit̄ ſic:q2 īfinite tarde incipit moueri vt ṗus
dictū eſt.ꝙ incipit moueri cū reſi^a infi^m modice minoꝛi q̄
eſt ſua po^a.aliter.n.certevelo^r incipet moueri:ꝙ eſſet dare
certū g^m reſiſtētie:ita ꝙ cum īceſſioꝛi illa incipit moueri.
Silr̄ nō eſt aliq̄s gradus illi^o lati^{nis} reſi^e q̄n certū tp̄s erit
anteq̄ cū iſto g̃du mouebit̄:q2 aliter īfinitevelo^r incipet
īcedē motū ſuū:⁊ ēt certevelociter incipet mouere:q2 ad
oēs g^m īrinſecū iſti^o lati^{nis} hꝫ certā ꝓpoꝛtionē maioꝛis in-
eq̄litatis. Sꝫ ꝯn̄s eſt falſū:q2 tunc vt p̄dictū eſt ſubito ꝓ-
cederet extre^m īceſſius ⁊ moueret̄ ſine reſi^a.pꝫ ꝙ ꝙ incipit
moueri cū reſi^a certo gradu reſiſtētie maioꝛi. Et ꝙ īfini-
te tarde īcipit ſua reſi^a decreſcē arguit̄ ſic. Mot^o eius ꝓ
q̄cūq̄ īſtāti īpediet īceſſionē ſui mot^o:eo ꝙ ꝓ omni īſtāti
mouebit̄ v̄ſus eādē viam v̄ſus quā mouebunt̄ oēs g̃dus
illi^o lati^{nis}:ꝙ nō decreſceret ſibi latitudo niſi rōne mot^o il-
loꝝ graduū:ſꝫ īfinite tarde incipit q̄libet gradus illi^o lati-
tudinis moueri:ꝙ īfinite tarde incipit ſibi reſi^a decreſcere.
ꝯn̄a arguit̄:q2 dato medio aliq̄ in quo foret latitudo extē
ſa:⁊ q̄libet gradus aliq̄ velocitate moueret̄ aliqualr̄ velo
citer re^e mobilis ibi q̄ſcētis incipet reſi^a decreſcē ⁊ ꝑ mo
tū in duplo tardioꝛē ⁊ in duplo tardius:⁊ ſic in īfi^m.ꝙ ſi īfi-
nite tarde incipit illa latitudo moueri īfinite tarde incipit
reſi^a re^e illius mobilis decreſcē. ¶ Pro huius arg^{ti} ſolōne 10^a ꝯclo
eſt notāda vna ꝯcluſio.ſ.ſi per ptes ineq̄les medioꝝ aliq̄-
rum eadē latitudo vel ꝯſiles reſi^e vniformiter extēdant̄
que latitu^{nes} ꝑgrediant̄ quieſcēte extremo remiſſioꝛi vtri-
uſq̄ lati^{nis} ⁊ manētibus illis latitu^{bus} vniformiter extēſis:ſi
ꝓpoꝛ^r ſicut vna latitudo per maius ſubm alia extēdit̄:ita
velocius ꝑgrediat̄ re^e duoꝝ ad extrema īteſſioꝛa vel ad
pūcta ad que ſunt extrema īteſſioꝛa q̄ſcētiū eq̄ueloꝝ erit
decremētū reſi^e:q2 ꝓpoꝛ^r ſicut vnū eſt alio minus:ita gli-
bet gradus lati^{nis} reſi^e per minus ab extremo īteſſioꝛi illi^o
ſubi diſtat. Si ꝙ mot^o in ea ꝓpoꝛ^e ſit tardioꝛ illi^o lati^{nis} in
medio minoꝛi q̄ in medio maioꝛi:acceſſus graduū illi^o la
tudinis in vno medio erit tāt^o ſicͨ in alio. Si ꝙ po^a aliq̄ ad
pūcta coꝛriſdētia illoꝝ me^{oꝝ} poneret̄ in medio minoꝛi tar
dius īcederet motū ſuū q̄ in maioꝛi.ex q̄.n.mot^o illi^o po^e eſt
eq̄lis ad pūcta coꝛriſdētia in vtroq̄ medio tardi^o ſibi cre-
ſceret reſi^a in medio maioꝛi q̄ in minoꝛi ſtātib^o illis lati^{bus}:
ꝙ maioꝛ erit exceſſus decremēti reſi^e ſtante po^a ſupra cre-
mētū ſue reſi^e:ſi ſtaret lati^{do} in medio maioꝛi q̄ in mino-
ri.ꝙ ꝑ ꝯnē 5^{am} in medio maioꝛi veloci^o īcedet̄ mot^o ſicut in
ꝯne ꝑ^a dia p̄cedēte eſt argutū. Sꝫ in caſu poſito in ꝯne 4^a
veloci^o ꝓpoꝛ^r maioꝛabit̄ diſtātia ꝑ quā extēdet̄ illa lati^{do}
q̄ maioꝛabit̄ mot^o illi^o lati^{nis}:ideo ſi mobile ſtaret ꝑ duo-
bus īſtātib^o ad eūdē g^m reſi^e in pte tp̄is poſterioꝛi tardius
reſpectu

reᵘ ſui decreſceret reſiᵃ ꝙ̄ in iſtāti ꝑorī. ⁊ ideo lȝ iſtᵐ tardiᵘ
incipiat eē moᵗ illiᵘ latiᵗⁱᵉ: nō ſeqᵗ ꝙ infinite tarde incipit
reſiᵃ ibi decreſcē: qꝛ in iſtᵒ modico ſubito incipit extēdi il-
la tota latiᵒ. Añs arguiᵗ: qꝛ cū moᵗ illiᵘ latiᵗⁱᵉ maiorabiᵗ
ad duᵖˡᵐ pars per quā tūc extēdeᵗ illa latitudo extēdeᵗ per
ſubiȝ in q̄drupᵐ maius ꝙ̄ ꝑus extēdereᵗ: qꝛ in fine cuiuſ-
libet tpis ad ꝑnᵐ terminati erit moᵗ illiᵘ latiᵗⁱᵉ velocior in
duplo ꝙ̄ in iſtāti medio eiuſdē tpis: ex q̄ vniforᵗ intēdeᵗ a
nō gradu. ⁊ ſi ſic in triplo plus de iſto medio trāſibit in 2ᵃ
medietate tpis ꝙ̄ in pᵃ: ⁊ per ꝯñs in fine per in q̄druᵐ ma-
ius ſubm extendeᵗ ꝙ̄ in iſtāti medio. Patet ģ ꝙ velocius
ꝓporᵗ maiorabiᵗ diſtantia ꝑ quā extēdeᵗ iſta latitudo ꝙ̄
moᵗ illius latiᵗⁱᵉ maiorabiᵗ. Et ideo in inſtāti poſteriori ſi
geſceret mobile ad extremuȝ ſui tardiᵘ reᵘ ſui decreſceret
11ᵃ ꝯclo reſiᵃ ꝙ̄ ꝑus: ⁊ ſic nō ꝓcedit arᵐ. ¶ Ex h etiā ſeqᵗ ꝙ q̄cūq
gradu itrinſeco iſtius latiᵗⁱᵉ incipit. a. velocius itēdē motū
ſuū ⁊ velocius moueri: ⁊ tñ ante q̄cūq inſtās datū velo-
cius itēdēt ifinita pūcta illius moᵗ ſuos ꝙ̄. a. ⁊ velociᵘ mo
uebunᵗ. Prima pars pȝ: qꝛ a nō gᵘ incipit. a. ⁊ etiaȝ q̄cūq
gradus illiᵘ reſiᶜ itēdē moᵗ ſuos: ⁊ nō eſt aliqs gradus in-
trinſecus illius latiᵗⁱᵉ qn velocius iᵒ incipit. a. moueri. ģ q̄-
cūq gᵘ itrinſeco illiᵘ latiᵗⁱᵉ dato velocius incipit. a. itēdere
moᵐ ſuū. ꝯña pȝ: ⁊ añs arguiᵗ ſic. ſi cū aliq̄ gradu eq̄veloᵗ
ꝑciſe incipit. a. mouere: ⁊ ad oēm gᵐ certū hȝ certā ꝓporⁿᵉᵐ
maioris inequalitatis: ģ incipit moueri a certa ꝓporᵉ: ģ nō ifi
nite tarde. ꝯñs falſum: ģ ⁊ añs eſt falſum. ſeqᵗ ģ oppoſiti
añtis qꝺ eſt pᵃ pars ꝯnis. Scḋa pars ſic arᵗ. Quocūq iſtā-
ti dato in illo erit. a. ad aliquē certū gᵐ huius reſiᶜ: ⁊ ꝯtinue
itēdet motū ſuū: ģ ille gradus mouebiᵗ velocius: eo qꝛ alr
ꝯtūc nō intēderet motū ſuū: vt liqᵗ de pȝ in ꝯne 5ᵃ. Cū ģ
q̄libet gradus illiᵘ latiᵗⁱᵉ vniformiter intēdet motū ſuū: ⁊
a. tardius ⁊ tardius ⁊ velociᵘ incipit. a. itēdere motū ſuū
ꝙ̄ talis pūctᵘ: ⁊ etiā velocius mouere: ſeqᵗ ꝙ ante illud in-
ſtans velocius itēdet gradus ad quē tūc erit. a. motū ſuū
ꝙ̄. a. ⁊ iſte gradus ⁊ q̄cūq alius vniformiter itēdet: ⁊ q̄li-
bet gradus itēſior velocius itēdet motū ſuū ꝙ̄ gradus re
miſſior: ģ ante id inſtās ifiniti gradus illiᵘ latitudis velo-
12ᵃ ꝯclo cius intēdēt moᵗ ſuos ꝙ̄. a. ģ ſequiᵗ ꝯcluſio ꝓbāda. ¶ Si
ab extremo mediȝ nō reſiſtēns gñaretᵗ latitudo reſiſtētie
quieſcēte extremo remiſſiori: cuius q̄libet gradus vniforᵗ
a nō gradu itēdat motū ſuū manēte illa latitudine ꝯtinue
vniformiter extenᵃ ⁊ in eodē extremo incipiat poᵃ moti-
ua creſcē a nō gradu que etiā vniforᵗ creſcat: illa tardius
⁊ tardius itēdet motū ſuū deductis aliȝs ipedimētis ⁊ iu-
uamētis extrinſecis. Hec ſic pȝ: qꝛ iſta poᵃ intēdet motuȝ
ſuū ⁊ ifinite tarde incipit mouere pȝ: qꝛ ſi certe velociter
incipiat mouere ⁊ q̄cūq ḡdus huᵘ reſiᶜ ifinite tarde inci-
pit mouere: ſeqᵗ ꝙ quēcūq gᵐ huius reſiᶜ incipit ꝓcedere.
ꝯñs falſū: qꝛ tūc moueretᵗ ſine reſiᵃ. ſeqᵗ ģ ꝙ ifinite tarde
icipit mouere: ⁊ per ꝯñs itēdet motū ſuū: ſȝ nō vniforᵗ nec
velocius ⁊ velociᵘ: ģ itēdet tardius ⁊ tardiᵘ. ꝯña pȝ ⁊ añs
ſic arguiᵗ. Si vniforᵗ itēdet motū ſuū: ģ cū a nō gᵘ inci-
pit moᵗ eius itēdi: ſeqᵗ ꝙ in triplo plus ptrāſibit in 2ᵃ me-
dietate iſtiᵘ tpis ꝙ̄ in pᵃ. detᵗ ģ gradus ad quē erit in fine:
⁊ ſeqᵗ ēt ꝙ iſte gradus vniforᵗ itēdet motū ſuū a nō gra
du: ģ ille gradus in triplo plus ptrāſibit in 2ᵃ medietate ꝙ̄
in pᵃ: ģ in inſtāti medio erit ille ḡdus ad pūctū termināte
4ᵗᵃᵐ totius qꝺ ptrāſibit ab iſto gᵘ in toto tpe ſui moᵗ: ⁊ et ſi
ſic in iſtāti medio erūt illa poᵃ ⁊ ille gradus ad eūdē pun-
ctū: ⁊ per ꝯñs in inſtāti medio mouebiᵗ illa cū eq̄li reſiᵃ
ſicᵗ in fine: ģ nō ꝯtinue itēdet motū ſuū. ꝯñs falſum. ſeqᵗ ģ
ꝙ nō pōt vniforᵗ itēdere motū ſuū nec velocius ⁊ velo-
cius: qꝛ ſi ſic cū a nō gᵘ incipit moueri: ſequiᵗ ꝙ plus ꝙ̄
triplū ptrāſibit in 2ᵃ medietate tpis ad illud qꝺ ptrāſibit
in pᵃ medietate eiuſdē tpis ſicut arguᵗum fuit in ꝯne 4ᵃ ⁊
allegata: ⁊ gradus reſiᵉ quē habebit in fine in triplo plus ꝑ-
trāſibit ꝑciſe in 2ᵃ medietate tpis ꝙ̄ in pᵃ: ģ in inſtāti me-
dio erit plus ptrāſitū ab iſto gradu reſiᶜ ꝙ̄ ab iſta poᵃ: ⁊ et
per ꝯñs in iſtāti medio mouebiᵗ cū minori reſiᵃ ꝙ̄ ſit gra
dus ille cū quo mouebiᵗ in fine: ⁊ per ꝯñs in iſtāti medio
mouebiᵗ velocius ꝙ̄ in fine: igiᵗ nō per totū tps mouebiᵗ
velocius ꝙ̄ in fine. ꝯñs falſum. ģ illud ex q̄ ſeqᵗ. ſ. ꝙ velo-
cius ⁊ velocius itēdet motū ſuū. relinquiᵗ ģ ꝙ tardius et
tardius itēdeᵗ eius moᵗ: qꝺ fuit ꝓbanᵐ. ¶ Cōtra ꝯnē pᵃᵐ ꝯ ꝯnem pmam.
pōt ſic argui. Sit. b. mediuȝ nō reſiſtēs in quo gñeᵗ parti-
biliter. c. latitudo extremo remiſſiori quieſcēte: cuiᵘ q̄libet
gradus moueatᵗ vniforᵗ: cuius extreᵐ moueatᵗ ꝯtinue a ꝓ-
portione dupla: ⁊ ſe habeat. a. poᵃ nō variata in poᵃ ad illō
extreᵐ in ꝓportione q̄drupla ⁊ deducanᵗ oia alia ipedimē-
ta: ⁊ ſit. a. motū indiuiſibile q̄titatiue ſicut opȝ imaginari
in talibᵘ caſibᵘ: tūc imediate poſt hoc. a. mouebiᵗ: qꝛ ime-
diate poſt hoc habebit mediū reſiſtēs ſup cuius quēcūq
gᵐ reſiſtētie dñabiᵗ: ģ mouebiᵗ. Añs pȝ: eo ꝙ ante q̄cūq
inſtās erit latitudo per certā ptē huius mediȝ extenſa. Et
ꝙ. a. nō incipit mouere arguiᵗ: qꝛ ſi. a. incipit moueri ipm
incipit moueri a ꝓportione q̄drupla vel maiori: qꝛ nō eſt
ḡdus itrinſecus qn ad illū habeat maiorē ꝓporⁿᵉᵐ ꝙ̄ qua-
druplā: ⁊ ad extreᵐ intēſius ꝓporᵉᵐ q̄druplā. Cum igiᵗ ex-
tremū intēſius ꝯtinue mouebiᵗ a ꝓporᵉ dupla: ſeqᵗ ꝙ inci
pit ꝓcedere extreᵐ: ⁊ per ꝯñs incipit mouere ſine reſiᵃ. ꝯſe
quēs falſum. ģ. ¶ Ideo forte dī ꝙ ante q̄cūq inſtās ifi-
nities quieſcet. a. ⁊ ifinities mouebiᵗ: ⁊ ſi ſic non ſeqᵗ ꝙ. a.
ꝓcedet extreᵐ. ¶ Cōtra lȝ ifinities quieſcet per nullū tps
quieſcet: qꝛ poſt q̄libet inſtās imediate mouebitur: eo ꝙ
ante finē cuiuſlibet tpis futuri erit reſiᵃ per aliq̄ ptē illiᵘ
mediȝ. Tūc ſic arguiᵗ. a. ⁊ illud extreᵐ incipiūt ab eodem
pūcto mediȝ mouere: ⁊ q̄ñcūq. a. mouebiᵗ ipm mouebiᵗ
in duplo velocius. b. ⁊ per nullū tps quieſcet: ģ ꝓcedet ex-
tremuȝ. ģ ſeqᵗ ꝯcluſio. ¶ Pro iſto ģ dī ꝙ imaginato ꝙ il-
lud mouēs ſit indiuiſibile erit moᵗ illius retrogradus: ita
ꝙ multotiēs eādē ptē ptrāſibit: ⁊ tūc nō ſequiᵗ ꝙ ꝓcedet
extremuȝ. ſi tñ illud ſubducatᵗ ⁊ ponatᵗ ꝙ nullā partē bis
ptranſibit dī ꝙ detinebiᵗ ab aliq̄ alio ne incipiat. ꝙ ſi ad-
huc deducatᵗ ꝯcedeᵗ de imaginatiōe ꝙ ſubito ptrāſibit
totū illō mediū: nec eſt illō in imaginabile: ⁊ tūc eſt cōce-
dēduȝ ꝙ illa mutatio ſubita erit ſine reſiſtētia. illud. n. nō
includit ꝯdictionē ſicut eſt de luminoſo agēte in medio ꝙ
imediate poſt inſtās applicatiōis aget per certā diſtātiā.
Nec eſt iſtud ꝯtra ꝯneȝ pᵃᵐ: ⁊ in illa etiā poniᵗ hec pticula
ꝙ moᵗ extremi latitudinis eſt velocior ꝙ̄ eſt gradus mo
tus quo illa poᵃ cum illo extremo ſufficit moueri: tunc. n.
motus vt ꝓbargutuȝ eſt manebit cōtinue vniformis: huiuȝ
tamē oppoſitum ponitur in caſu iſto ⁊c̄.

Dicto qualiter manebit motus mobilis qñ eſt
ꝓgreſſus latiᵗⁱᵉ in mediū nō re-
ſiſtēs, reſtat ponere ꝯnes aliq̄s qñ mediuȝ eſt vniforᵗ diſ-
forme ad nō gᵐ terminatū a cuius extremo remiſſiori in-
cipit creſcere. a. poᵃ a nō gᵘ. pro quo poniᵗ pᵃ hec cōcluſio.
¶ Si ſit mediuȝ vniforᵗ difforme terminatū ad nō gᵐ a pᵃ ꝯclo
cuius extremo remiſſiori incipit poᵃ mouere creſcēs vni-
formiter a nō gᵘ ⁊ mouēs ꝯtinue ſm ꝓporⁿᵉᵐ poᵉ ad reſiᵗⁱᵐ
ſibi imediatā: iſta poᵃ ꝯtinue mouebiᵗ vniforᵗ. Hec ſic de-
mōſtraᵗ: ſit. b. mediuȝ illō ad nō gᵐ terminatū: ⁊. a. poᵃ cre
ſcēs vniforᵗ a nō gᵘ: tūc. a. nō pōt intēdē motū ſuū nec re
mittere: ģ ꝯtinue mouebiᵗ vniforᵗ. ꝯña pȝ: ⁊ añs arguiᵗ ꝑ:
qꝛ per nullū tps terminatū ad ꝑnᵐ pōt itēdere motū ſuū
nec remittere: qꝛ ſi per aliqꝺ tps terminatū ad ꝑnᵐ itēdet
motū ſuum in 2ᵃ medietate illius tpis plus ptrāſibit ꝙ̄ in
pᵃ: ⁊ etiā qꝛ mediuȝ eſt vniforᵗ difforme velocius ⁊ velo-
cius accreſcet ſibi de reſiᵃ: ⁊ reſiᵃ terminaᵗ ad nō gᵐ: ģ reſiᵃ

cum qua mouebiť in fine erit plus ꝙ̃ dupla ad reſiaꝫ quã
hēbit in inſtãti medio:ꝛ poa in fine erit in duplo maior pci
ſe ꝙ̃ in inſtãti medio:ex q̃ vniforr creſcet.a.nõ gdu:ğ in fine
erit minor ꝓpore po ad reſiaꝫ ꝙ̃ in iſtãti medio.ſic.n. vna
poa ſe hꝫ ad ſuã reſiaꝫ ita poa dupla ad duplã reſiam ſe ha-
bebit:ꝛ ſi ſic in fine mouebiť tardius ꝙ̃ in iſtãti medio:ꝛ
per ꝯñs nõ per totũ tꝑs datũ intēdet motũ ſuuꝫ.ſeqĩ ğ ꝙ
per nullũ tꝑs terminatũ ad pn̄m põt itēdē motũ ſuuꝫ. Nec
per aliqđ tꝑs terminatũ ad pn̄m põt remittere motũ ſuuꝫ:
qa ſi ſic tardius ꝛ tardius creſcet ſibi reſia:ğ in fine erit reſia
nõ in duo maior ꝙ̃ in iſtãti medio:qa creſcet a nõ gdu ꝛ poa
erit in fine in duplo maior ꝙ̃ in inſtãti medio:ex q̃ vniforr
creſcet a nõ gdu:ğ in fine erit maior ꝓpore po ad ſuã reſiam
ꝙ̃ in inſtãti medio:ꝛ per ꝯñs nõ per totũ illđ tꝑs remittet
motũ ſuũ.ſeqĩ ğ manifeſte ꝙ per nullũ tꝑs terminatũ ad
pn̄m totius tꝑis põt intēdē motũ vel remittē. ¶ Sꝫ aliter ꝓ-
baĩ ꝙ per nullũ tꝑs põt intēdē motũ vel remittē:qa ſi ſic
ſit illđ inſtãs.c.in quo incipiet intēdē motũ ſuuꝫ vel remit
tere:ꝛ ſit.f.ꝓpore ex qua vniforr mouebiť ꝯtinue ante.c.ꝛ
ſeqĩ ꝙ ꝯtinue ante in.f.ꝓpore tardius creſcet reſia ꝙ̃ eius poa:
ex q̃.n.motus erit vniforꝰ reſia vniforr creſcet ſicut iſta poa ſicut
ꝓbatuꝫ eſt ꝯne.17.de regulis cõibꝰ de motu locali in pn̄o
poſitis:ğ ſi.a.intēdet motũ ſuuꝫ velociꝰ creſcet ſua reſia ꝙ̃
pꝰus:ex q̃ mediũ eſt vniforr difforme:ꝛ poa equeuelor pꝛiꝰ
creſcet ſicut pꝰus imediate ante iſtud inſtãs:ğ imediate poſt
iꝰ inſtãs nõ in iſta ꝓpore velociꝰ creſcet poa.a.ꝙ̃ ſua reſia:ꝛ
per falſigraphuꝫ inter.a.ꝛ ſuã reſiaꝫ imediate poſt h inſtãs
erit maior ꝙ̃.f.ꝓportio.a.ad ſuã reſiaꝫ:qa per cuꝫ motꝰ in-
tēdeť:ğ nõ in qua ꝓpore erit poa maior ſua reſia in ea velo
cius creſcet:ꝛ per ꝯñs tardius ꝓpore itēdeť.a.ꝙ̃ ſua reſia:
ꝛ per ꝯñs tunc minorabiť ꝓpore ad ſuã reſiaꝫ:ꝛ ſi ſic motꝰ
eius remitteť ꝛ nõ intēdeť. Si ğ tunc dĩ ꝙ incipiet motꝰ
eius remitti:ğ imediate poſt iꝰ inſtãs tardius creſcet reſia
ꝙ̃ pꝛius ꝛ poa ꝯtinue vniforr creſcet:ğ plus ꝙ̃ in.f.ꝓpore
tũc creſcet poa velocius ſua reſia:ꝛ per datũ ꝓpore inter.a.ꝛ
ſuã reſiaꝫ tũc erit minor ꝙ̃ ſit.f.ꝓportio:qa motꝰ remitteť:
ğ tunc velociꝰ ꝓpore creſcet.a.ꝙ̃ reſia ſua:ꝛ per ꝯñs motꝰ
a.tũc intēdeť ꝛ nõ remitteť.ſeqĩ ğ ꝙ ſi motꝰ aliqñ itēdeť
ꝙ tunc remitteť ꝛ ecõtra:qđ eſt ipoſſe.opꝫ ğ ꝙ idē mobile
2ª ꝯclo ꝯtinue vniforr moueaĩ. ¶ Si poa incipiēs motũ in extre-
mo remiſſiori medij vniforr difformis ad gdum vel ad nõ gdum
terminati per vniforr crem ſue po vniforr moueaĩ ꝑ ali-
qđ tꝑs vel incipiat vniforr moueri nõ facta aliũde muta-
tione iſta poa cõtinue mouebiť vniforr. Et ꝓ arguiĩ h de me-
dio terminato ad gdum in extremo remiſſiori:qa ſi per aliqđ
tꝑs vniforr mouebiť ſua reſia vniformiter creſcet.ſit ğ ꝓ-
portio ex qua mouebiť.f.ꝛ ſeqĩ ꝙ in.f.ꝓpore velociꝰ cre-
ſcet ſua poa ꝙ̃ ſua reſia per tꝑs per qđ vniformiter moue-
biť.Si ğ aliqñ deſinet moueri vniforr:ſit.d.iꝰ iſtãs in quo
incipiet itēdē motũ ſuuꝫ vel remittē:ꝛ ſeqĩ vt pꝰus ꝙ ſi in-
tēdet ꝙ velociꝰ creſcet tũc ſibi reſia ꝙ̃ pꝰus:ğ nõ in.f.ꝓpore
tũc velocius creſcet poa ꝙ̃ reſia:ſꝫ ſi intēdeť eius motꝰ erit
ꝓpore maior ꝙ̃.f.ꝓpore po ad reſiaꝫ:ğ nõ in ea ꝓpore cre
ſcet poa velociꝰ ſua reſia in qua ſua reſia erit minor:ğ motꝰ
ſuus remitteť ꝛ nõ intēdeť.Si dicaĩ ꝙ motꝰ ſuus tũc inci-
piet remitti:tũc incipiet poa creſcē plus ꝙ̃ in.f.ꝓpore velo
cius ſua reſiſtētia:ꝛ ſi motꝰ remitteret incipet eē minor ꝓ-
portio ꝙ̃ eſt ꝓpore po ad reſiaꝫ:ğ tũc incipiet poa velocius
ꝓpore creſcē ꝙ̃ ſua reſia:ꝛ per ꝯñs tũc incipiet motꝰ itēdi
ꝛ nõ remitti.Seqĩ ğ iſta pars. Et alia arguiĩ.ſ.de medio
terminato ad nõ gdum cõſilr oino.Uel ſic.Si medium termineĩ
ad nõ gdum:ꝛ per aliqđ tꝑs terminatũ ad pn̄m motꝰ manebit
vniꝰ:ğ in aliq̃ inſtãti erit ad pũctũ irinſecũ poſtꝙ̃ vnifor
miter mouebiť per aliqđ tꝑs:ğ ꝯtinue poſt illđ inſtãs mo
3ª ꝯclo uebiť vniformiter:vt ꝓbatur in alia pticula. ¶ Si ab ex-
tremo remiſſiori medij vniformiter difformis icipiat po-
tētia aliq̃ eque ꝓpore creſcē ſicut ſua reſiſtētia per ciꝰ motũ:
que potētia ꝯtinue vniformiter creſcet:motꝰ ciꝰ manebit
ꝯtinue vniformis:qa ſi nõ:ſit.a.hꝰ potētia:ꝛ.b.ſuũ medium:ꝛ
ſit.f.ꝓportio in qua potētia.a.eſt maior ſua reſiſtētia:ꝛ in
eadē ꝓpore creſcat velociꝰ:ꝛ creſcat.a.ꝯtinue vniformiter
deductis aliis variatiõibꝰ:ꝛ ſit.c.potētia eq̃lis.a.eq̃ueloci
ter ꝯtinue creſcēs ſicut.a.ꝛ ſit.d.reſiſtētia ſub gdu ad quē ter-
minaĩ.b.in extremo ſuo remiſſiori:et creſcat.d.eq̃ueloci-
ter ꝯtinue ſicut nũc incipit reſiſtētia.a.in.b.vniformiter.vꝫ.
in.f.ꝓpore tardius ꝙ̃.c. vel.a.ꝛ ſeqĩ ꝙ.c.d.eque ꝓpore ꝯti-
nue creſcēt:qa.d.eſt in.f.ꝓpore minus.c.ꝛ in.f.ꝓpore cõti-
nue tardiꝰ creſcet ꝙ̃.c.ğ ꝯtinue manebit in.f.ꝓpore minus
c.ꝛ ſi ſic ꝓpore c.ad.d.ꝯtinue manebit tãta ſicut nũc:ꝛ ꝑ ꝯñs
c.mouebiť vniformiter:ꝛ.a.cõtinue eq̃uelociter mouebiť
cuꝫ.c.ğ.a.ꝯtinue mouebiť vniformiter.Añs pꝫ:qa ſi.a.itē-
det motũ ſuũ velociꝰ ꝛ velociꝰ itēdeť eius reſiſtētia:ꝛ eq̃ue
lociter incipit reſiſtētia ſua creſcē reſiſtētia ſicut.d.incipit reſiſtētia.c.ğ
velociꝰ creſcet reſiſtētia re.a.ꝙ̃ re.c.ꝛ in pn̄o reſiſtētie ſue
ſunt eq̃les:ğ reſiſtētia.a.fiet maior ꝙ̃ reſiſtētia.c.ꝛ potētie
ſemꝑ erũt eq̃les:ğ.a.mouebiť tardius.c.ꝛ.c.vniformiter:
ğ.a.remittet motũ ſuuꝫ ꝛ nõ itēdet.Cõſilr arguiĩ.ſi dicaĩ
ꝙ.a.remittet motũ ſuum:qa tardius creſcet ſua reſiſtētia
ꝙ̃ reſiſtētia.c.ꝛ per ꝯñs motꝰ incipit itēdi ꝛ nõ remitti.ſe-
quiĩ ğ ꝙ ſi motus incipiat itēdi ꝙ incipit remitti ꝛ eꝯ:qđ
eſt ipoſſe.ğ motꝰ eius nũc nõ incipit intēdi nec remitti:ꝛ ſi
ſic per ꝓximã nunꝙ̃ intēdeť nec remitteť:ꝛ per ꝯñs motꝰ
ꝯtinue manebit vniformis:qđ fuit ꝓbandum. ¶ Si ab vno 4ª ꝯclo
pũcto medij vniformiter difformis incipiat aliq̃ potentia
per vniforr crem ſue potētie vniformiter mouere que vni-
formiter ꝯtinue mouebiť:ꝛ potētia equalis ꝯſilr oino cre
ſcēs icipiat a pũcto remiſſiori mouere in eodē medio iſta
potētia ꝯtinue remittet motũ ſuuꝫ:ꝛ ſi moueret a puncto
cui corrñdet maior reſiſtētia ſia ꝯtinue intēdet motũ ſuuꝫ.
Prima pars ſic arguiĩ.Sit.a.illa potētia que cõtinue mo
uebiť vniforr:ꝛ ſit.b.poa ſibi eq̃lis icipiēs vbi eſt reſia mi-
nor ꝙ̃ ſꝑ maneat eq̃lis.a.po:ꝛ arr ſic.a.ꝯtinue mouebiť vnir:ğ
eq̃propore creſcet ſua reſia ſicut ſua poa:ꝛ poa.b.eq̃propore
creſcet ſicut poa.a.qr iꝰ ſꝑ erũt eq̃les:ğ reſia.a.eq̃propore cre-
ſcet ſicut.b.ꝯtinue:ꝛ reſia.b.velociꝰ ꝓpore ꝯtinue creſcet ꝙ̃ reſia.a.ğ
reſia.b.velociꝰ ꝓpore ꝯtinue creſcet ꝙ̃ ſua poa:ꝛ per ꝯñs motꝰ
eiꝰ ꝯtinue remitteť.Añs pꝫ.vꝫ.ꝙ velociꝰ ꝓpore creſcet reſia.b.
ꝙ̃ reſia.a.qa.b.nunꝙ̃ attinget.a.ꝛ ꝑ ꝯñs ꝯtinue mouebiť cum
reſia minori ꝙ̃.a.ꝛ velociꝰ ꝙ̃.a.ꝛ ſi ſic ſua reſia ꝯtinue velocius
creſcet ꝙ̃ reſia.a.ğ velocius ꝓpore itēdeť ꝙ̃ reſia.a.Oēs ꝯn
intermedie patēt:ꝛ añs arr.ſ.ꝙ.b.nunꝙ̃ attinget.a.qa ſi ſic
b.ptrãſiret in iſto tꝑe totum qđ.a.ptrãſiret ꝛ aliqd plus.ꝯñs
falſum:qa poa eadē in minori tꝑe põt ptrãſire ptē ꝙ̃ totũ
cuiꝰ eſt pars. ¶ Itē ſi.b.attinget.a.ſit iſtãs.c.in q̃ attinget
a.ꝛ decreſcãt eq̃uelor ſicut pꝰus itēdebanĩ mõ verſus extremum re-
miſſius eꝯꝛ ſit.d.inſtãs in q̃.a.erit eꝫ in via diminutiõis tãte
po ſicut nũc eſt.Et ſeqĩ ex q̃ ꝯſilr diminueĩ ſicut pꝰus itēdebaĩ
ꝙ in via remiſſionis tãtũ ptrãſibit ſicut in via itenſiõis ꝛ ēt.b.ꝛ
ſi ſic plus in via diminutiõis ptrãſiret.b.ꝙ̃.a.ꝯñs falſum:qa
icipiēt ab eodē pũcto remittē moꝰ ſuos:ꝛ ꝯtinue manebũt eq̃-
lis po.ſeqĩ ğ ꝙ.b.nõ attiget.a.ꝛ ꝑ ꝯñs.b.vt pꝰus remittet
motum ſuũ.pꝫ ğ pꝰ pars ꝯnis.Et 2a ſic arr.moueaĩ vt pꝰus.a.b.
vniforr:ꝛ ponaĩ.b.ꝯtinue eq̃lis po ipi.a.ad pũctũ magis reſi
ſtētē:ꝛ ſeqĩ vt pꝰus ꝙ.a.nunꝙ̃ attinget.b.ğ.b.ꝯtinue mouebiť
tardiꝰ ꝙ̃.a.Et ſi ſic ſua reſiſtētia tardiꝰ ꝯtinue creſcet ꝙ̃ re
ſiſtētia.a.ꝛ ſemꝑ erit reſia.b.maior ꝙ̃ reſia.a.ğ tardius ꝓ-
portionabilr ꝯtinue creſcet reſiſtētia.b.ꝙ̃ reſia.a.ꝛ reſia.a.
eque ꝓportionabilr creſcet ſicut.b.ex q̃ motus.a.manebit
vniforꝰ ꝛ.b.erit cõtinue eq̃lis:ğ velocius ꝓpore creſcet.b.
ꝯtinue ꝙ̃ ſua reſia:ꝛ per ꝯñs motus eius ꝯtinue intēdetur.

¶ Ex his

5ª ꝯ ¶ Ex his inferť ꝙ ſi in medio vniforʳ difformi termiato
ad nõ gᵐ icipiat poª creſcere a nõ gᵒ vniʳ ꝯtinue creſcẽs: ⁊
ad aliquẽ punctũ intrinſecũ inciperet aliq̃ poª creſcere a nõ
gradu vniʳ ſicut aª: ipſa ꝯtinue intẽdet motũ ſuũ. icipiat. n.
a. moueri in extreᵒ ⁊ ponať. b. icipe creſcere ⁊ creſcat vniʳ
ſicut. a. ⁊ ponať. b. ad aliquẽ pũctũ intrĩſecũ: quo poſito arʳ
ꝙ. b. ꝯtinue intẽdet motũ ſuũ. ſ. qñcũq; mouebiť: qꝛ. b. ꝯtᶜ
mouebiť cũ reſiª maiori. a. ⁊ ſemꝑ erit eq̃lis poᶜ cũ. a. eq̃ueʳ
creſcẽs: g̃ per ꝑmã cũ. a. ꝯtᶜ mouebiť vniforʳ. b. intẽdet
motũ ſuũ. Añs pʒ: qꝛ. a. nõ deueniet ad. b. anteq̃. b. moue/
biť: qꝛ ſi ſic remitteret motũ ſuum ad nõ gᵐ: qꝛ. b. mouebiť
qñcũq; hẽbit ꝓporᵉᵐ maioris ieq̃litatis ad reſiᵃᵐ ſibi ime
diatãᶜ poſtq̃. b. icepit motũ deueniet ad. b. ſicut argutũ
6ª ꝯ fuit ꝯne ꝓxia: g̃. b. cõtinue ꝓcedet. a. ¶ Si ab extremo re/
miſſiori medij vniʳ difformis creſcãt zᵉ poᶜ vniʳ a nõ g̃du
vna aª velociᵒ: poª velociᵒ creſcẽs in minori ꝓporᶜᵉ velo/
cius mouebiť q̃ ſit ꝓporᵒ in q̃ velociᵒ creſcet maior poª.
Ponať. n. ꝙ. a. poª in. f. ꝓporᶜᵉ velociᵒ creſcat q̃. b. ⁊ arʳ ꝙ
nõ in. f. ꝓporᶜᵉ velociᵒ. a. mouebiť q̃. b. qꝛ ſi ſic in. f. ꝓporᶜᵉ
velociᵒ creſcet reſiª reª. a. q̃ reª. b. qꝛ mediũ eſt vniʳ diffor:
g̃ cũ a nõ gᵒ incipiãt iſte reſiᶜ creſcere: ſeqť ꝙ in. f. ꝓporᶜᵉ
erit ꝯtinue reſiª. a. maior q̃ reſiª. b. ⁊ poª. a. ſilʳ erit cõtinue
in. f. ꝓporᶜᵉ maior poª. b. g̃ tãta erit cõtinue ꝓporᵒ. a. ad. b.
ſicut reſiª. a. ad reſiᵃᵐ. b. g̃ ꝑmutatiʒ ſicut. a. ſe hʒ ad ſuã reſi
ſtentiã: ita ꝯtinue ſe hẽbit. b. ad ſuã reſiᵃᵐ: ⁊ ꝑ ꝯñs equeueʳ
ꝓciſe mouebiť. a. ſicut. b. ꝯñs fʒ. Conſilr argʳ ꝙ. a. nõ mo/
uebiť velociᵒ. b. in maiori ꝓporᶜᵉ q̃ eſt. f. qꝛ tunc ſua reſiª
ſemꝑ eſſet in maiori ꝓporᶜᵉ q̃ in. f. maior reſiª. b. ⁊ poª. a.
ſolũ erit in. f. ꝓportiõe maior poª. b. g̃ mior tũc erit ꝓpor
tio. a. ad ſuã reſiᵃᵐ q̃. b. ad ſuã: g̃. b. mouebiť velociᵒ. a. ꝯñs
7ª ꝯ falſuʒ: ſeqť g̃ ꝯcl'o. ¶ Si vna poª creſcat a nõ gᵒ vniforʳ in
duᵒ velociᵒ alia in hᵒ meᵒ vniʳ difformi termiato ad non
gᵐ: quaꝝ minor mouebiť a ꝓportiõe duª: maior mouebiť
plus q̃ in ſexq̃ʒᵒ veloᵒ minori ſed nõ in ſexq̃ʒᵒ veloᵒ. ſit. n.
a. maior ⁊. b. minor: ⁊ arʳ ſic. Si. a. mouebiť in ſexq̃ʒᵒ velo/
cius q̃. b. ꝓciſe: g̃ reſiª ſua ꝯtᶜ erit in ſexq̃ʒᵒ maior reſiª. b. ⁊
b. ſe hẽbit ꝯtinue ad ſuã reſiᵃᵐ ꝓpriã in ꝓportiõe duª: g̃. b.
ad reſiᵃᵐ. a. erit ꝯtinue ꝓporᵒ ſexq̃altera ⁊. a. ꝯtinue ſe ha/
bebit ad. b. in ꝓportiõe duª: g̃ ad reſiᵃᵐ ſuã hẽbit ꝓporᶜᵉᵐ
cõpoſitã ex duª ⁊ ſexq̃altera: que ꝯſtituũt ꝓporᶜᵉᵐ triplaʒ:
eo ꝙ ꝓporᵒ. a. ad ſuã reſiᵃᵐ cõponeť ex ꝓportiõe. a. ad. b.
⁊ ex ꝓportiõe. b. ad reſiᵃᵐ. a. Sed ꝓporᵒ tripla eſt maior
q̃ ſexq̃ʒª ad duplaʒ: qꝛ ꝯtinet duplaʒ ⁊ ſexq̃alterã q̃ ſexq̃al
tera eſt maior q̃ 3ª ꝑs ꝓporᶜᵉ duple vt ꝯſtat: g̃ ſi. a. moue/
biť ꝓciſe in ſexq̃ʒᵒ velocius. b. ſeqť ꝙ mouebiť plus q̃ in
ſexq̃ʒᵒ velociᵒ. b. qḋ fuit ꝓbãduʒ. ¶ Idẽ eſt arᵐ ſi di ꝙ. a.
nõ mouebiť in ſexq̃ʒᵒ velociᵒ. b. qꝛ tũc poª. b. eẽt maior q̃
ſexq̃altera ad reſiᵃᵐ. a. ⁊ per ꝯñs ꝓporᵒ. a. ad ſuã reſiᵃᵐ eſt
maior q̃ tripla: ⁊ ſi ſic. a. mouebiť plus q̃ in ſexq̃ʒᵒ velociᵒ
b. pʒ g̃ pª ꝑs ꝯñs. Et 2ª ſic arʳ. Si. a. mouebiť in ſexq̃alte/
ro velocius. b. g̃ in ſexq̃altero plus ꝑtrãſibit: ⁊ per ꝯñs ſua
reſiª erit in ſexq̃altero maior q̃ reſiª. b. ⁊ ſi ſic. b. ſe hẽbit
ad reſiᵃᵐ. a. in ꝓportiõe duᵒ ſexq̃ʒª ꝓciſe: eo ꝙ. b. ad ſuã re/
ſiſtentiã erit ꝓciſe dupla ꝓporᵒ. ſed. a. ſe hẽbit ꝯtinue ad. b.
in ꝓportiõe duª: g̃ ꝓporᵒ. a. ad ſuã reſiᵃᵐ cõponeť ꝯtinue
ex ꝓportiõe duᵒ ⁊ ex ꝓportiõe ſexq̃ʒª: ſʒ ſexq̃ʒª nõ eſt me/
dietas duple ꝓporᶜᵉ vt notũ eſt: g̃. a. nõ mouebiť in ſexq̃/
altero velociᵒ. b. nec plus q̃ in ſexq̃altero velociᵒ. b. g̃ a for
tiori mouebiť velociᵒ q̃. b. aliq̃ ꝓporᶜᵉ iter ſexq̃alteram ⁊
ſexq̃ʒᵃᵐ: que tñ ſit iſta maius reqreret ſtudiũ q̃ iduceret ꝓ
8ª ꝯ ꝓfectu. ¶ Si tñ due poᶜ ineq̃les creſcãt vniʳ a nõ gᵒ in hᵒ
meᵒ vniʳ difformi termiato ad nõ gᵐ: quaꝝ vna in q̃druᵒ
alia velocius creſcet: ⁊ mior moueť a ꝓportiõe duª: maior
ꝯtinue mouebiť a ꝓportiõe in dubio maiori q̃ minor. Et
ſi minor creſcat ita ꝙ moueať ꝯtinue a ꝓportiõe q̃druª ⁊
alia in octuplo velociᵒ ea ꝯtinue creſcat iſta maior ꝯtinue
mouebiť in duᵒ velociᵒ minori: ⁊ ſic vlʳ ſi ꝓporᵒ in q̃ vna
creſcit alia velociᵒ excedat ꝓporᶜᵉᵐ ex q̃ mior moʳ per ꝓ/
portionẽ duplã maior ꝯtᶜ in duᵒ velociᵒ mouebiť q̃ mi
nor. Prioʳ arʳ pª ꝑs. Sit. n. a. in q̃druᵒ velociᵒ creſcẽs q̃. b. ⁊
moueať. b. a ꝓporᶜᵉ dupla ꝯtᶜ: ⁊ deť inſtãs in q̃ erit aliᶜ
poᶜ. ſ. vt 2ᵒ gr̃a arᵗ. ⁊ ſeqť ꝙ ſua reſiª tũc erit vt vnũ. ſi g̃. a.
nõ mouebiť in duᵒ velociᵒ. b. ſua reſiª nõ erit duª ad reſiᵃᵐ
b. ⁊ per ꝯñs reſiª. a. erit minor q̃ 2ᵒ: ⁊ poª tũc erit vt octo: qꝛ
in q̃druᵒ velociᵒ creſcet q̃. b. g̃ ꝓporᵒ. a. ad ſuã reſiᵃᵐ tunc
erit maior q̃ q̃drupla: g̃ tũc plus q̃ in duᵒ velocius moue/
biť. a. ipſo. b. ⁊ nõ tardiᵒ q̃ in duᵒ. Si deť g̃ ꝙ. a. mouebiť
plus q̃ in duᵒ velociᵒ. b. g̃ ſua reſiª erit maior q̃ dupla ad
reſiᵃᵐ. b. ⁊ ſi ſic reſiª. a. tũc erit maior q̃ 2ᵒ: ⁊ per ꝯñs. a. non
mouebiť a ꝓporᶜᵉ q̃drupla: ⁊ ſi ſic. a. non mouebiť in duᵒ
velociᵒ. b. ſeqť g̃ ꝙ ſi. a. moueret plus q̃ in duᵒ velociᵒ. b.
ꝙ nõ mouebiť in duᵒ veloᵒ: ⁊ ſi tardiᵒ q̃ in duᵒ veloᵒ: ſeqť
ꝙ plus q̃ in duᵒ velociᵒ. ꝯñs fʒ. relinqť g̃ ꝙ totũ mouebiť
in duᵒ velociᵒ. Cõſilr arʳ. vbi minor poª moueať a ꝓporᶜᵉ
q̃drupla ⁊ maior creſcat ea in q̃druª velociᵒ: qꝛ dato inſtã
ti in quo minor erit vt 2ᵒ: ſeqť ꝙ ſua reſiª erit vt medietas
vnitatis: tũc ſi. a. nõ mouebiť in duᵒ velociᵒ. b. ſed tardiᵒ q̃
in duᵒ velocius: g̃ ſua reſiª nõ erit dupla ad reſiᵃᵐ. b. g̃ iſta
eſt minor q̃ eſt vnum ⁊ poª erit vt. 16. vt pʒ: g̃ maior tunc
erit ꝓporᵒ. a. ad ſuã reſiᵃᵐ q̃ ſexdecupla: ⁊ ꝓporᵒ. b. ad ſuã
reſiᵃᵐ erit q̃drupla: g̃. a. mouebiť plus q̃ in duᵒ velociᵒ. b.
⁊ nõ tardiᵒ q̃ in duᵒ veloᵒ. Cõſilr arʳ ꝙ nõ mouebiť plus
q̃ in duᵒ velociᵒ: qꝛ tũc ſua reſiª erit maior q̃ vnũ: g̃ nõ mo
uebiť a ꝓportiõe ſexdecupla: ⁊ per ꝯñs nõ mouebitur in
duᵒ velociᵒ. b. ſeqť g̃ ꝙ ſolũ mouebiť in duᵒ velociᵒ ipſo. b.
¶ Nũc g̃ ad ꝯnem illã arʳ vlʳ ſic. Moueať. b. ab aliq̃ ꝓ/
portiõe que ſit. c. ⁊ creſcat. a. velociᵒ q̃. b. ita ꝙ ꝓporᵒ cre/
mẽti. a. ad creᵐ. b. excedat ꝓporᶜᵉᵐ ex qua. a. mouebiť per
ꝓporᶜᵉᵐ duplaʒ: q̃ ꝓporᵒ ſit. d. ⁊ argʳ ſic. a. in. d. ꝓporᶜᵉ ꝯtᶜ
velociᵒ creſcet q̃. b. g̃. a. cõtinue ſe hẽbit ad. b. in. d. ꝓporᶜᵉ:
eo ꝙ vtrũq; creſcet a nõ gᵒ ⁊. b. ad ſuã reſiᵃᵐ hẽbit. c. ꝓpor
tionẽ: g̃. a. hẽbit ad reſiſtẽtiam. b. ꝓporᶜᵉᵐ cõpoſitã ex. d. c.
ꝓportionibᵒ ⁊. d. ꝯtinet. c. ⁊ ꝓporᶜᵉᵐ duplaʒ vltra: g̃ ꝓporᵒ
a. ad reſiſtẽtiã. b. ꝯtinet duas. c. ꝓporᶜᵉˢ ⁊ vnã ꝓportioneʒ
duplã. Sʒ ꝓporᵒ. a. ad reſiſtentiã duplã ad reſiſtentiaʒ. b.
erit minor q̃ ꝓporᵒ. a. ad reſiſtẽtiã. b. per ꝓporᶜᵉᵐ duplaʒ:
eo ꝙ tota ꝓporᵒ cõpoſita ex duabᵒ excedit vnã ꝑ alteraʒ:
g̃ ꝓporᵒ. a. ad reſiſtentiã duplaʒ ad reſiſtẽtiam. b. ꝯtinebit
ꝓciſe duas. c. ꝓporᶜᵉˢ: ⁊ per ꝯñs in duᵒ velocius ꝓciſe ſuffi/
ciet. a. mouere cũ reſiª dupla ad reſiᵃᵐ cũ q̃ mouebiť. b. q̃
b. cũ lª reſiª ſubdupla. Si g̃. a. nõ mouebiť in duᵒ velocius
b. ſʒ tardiᵒ q̃ in duᵒ velociᵒ: ſeqť ꝙ ſua reſiª nõ erit dupla
ad reſiᵃᵐ. b. ⁊ per ꝯñs mouebiť plus q̃ in duᵒ velociᵒ ipſo
b. ⁊ nõ tardius q̃ in duplo velocius. Et ſi mouebiť plus q̃
in duplo velocius ipſo. b. ſua reſiſtẽtia erit maior q̃ dupla
ad reſiſtentiã. b. g̃ nõ mouebiť in duplo velociᵒ. b. ſed tar/
dius q̃ in duplo velocius. Ex hoc g̃ ꝙ poniť. a. moueri tar
dius q̃ in duplo velociᵒ. b. ſeqť ꝙ mouebiť plus q̃ in duᵒ
velocius ⁊ econtra: neutra g̃ pars põt poni: relinqť g̃ ꝙ. a.
ſolũ mouebiť in duplo velocius. b. ⁊ ſic ſeqť ꝯcl'o gnãlr.
¶ Si ſint duo media inequalia vniforʳ difformia eadem 9ª ꝯ
latitudine terminata ad nõ gradũ in quoꝝ vtroq; creſcat
potẽtia vniʳ a nõ gᵒ ⁊ ꝓporʳ ſic vnũ mediũ eſt alio minᵒ:
ita potẽtia mouẽs in minori velociᵒ creſcat: ille poᶜ in illis
duobᵒ medijs equeʳ ꝯtinue mouebunť. Sit enim. f. ꝓporᵒ
medioꝝ ⁊ ĕt cremẽti potẽtiaꝝ: ⁊ ſit. a. poª velociᵒ creſcens
⁊ ſit. b. tardius iª creſcens ⁊ ſit. c. mediũ minᵒ in quo. a. mo/
uetur ⁊. d. medium maius in quo. b. moueť: tunc ſicut aliq̃
puncta. d. plus diſtant ab extremo remiſſiori: ita illis cor/
reſpondent gradus inteſiores reſiᶜ: ex quo meᵐ eſt vniforʳ dif/

forme terminati ad nō gᵐ ꝛ ad oīa pūcta corrńdētia.c.d.
sunt resiᵉ eq̄les:ḡ sicut.d.est maiꝰ.c.ita quilꝫ punctꝰ eiꝰ per
minꝰ distat a nō gᵘ resiᵉ q̄ꝫ punctꝰ in.c.equalr distās ab ex-
tremo remissiori sic distat a non gᵘ: ḡ ad cēm punctū.c.est
resiᵃ maior in.f.ꝓporᵐᵉ q̄ꝫ ad punctuꝫ.d.eq̄lr ab extreᵒ re-
missiori distātē ꝛ.a.poᵃ ꝯtiᵉ erit in.f.ꝓporᵐᵉ maior q̄ꝫ.b.qꝛ
a.b.crescēt vniᵣ a nō gᵘ:ꝛ.a.in.f.ꝓporᵐᵉ velocius crescet q̄ꝫ
b.ḡ.a.ꝯtinue mouebit̄ equeᵣ sicut.b.ꝯn̄a pꝫ:qꝛ si.a.moue-
bit̄ velociꝰ q̄ꝫ.b.plus ꝑtrāsibit q̄ꝫ.b.ꝛ per ꝯn̄s mouebit̄ cū
resiᵃ se h̄ntē ad resiᵃᵐ.b.in maiori ꝓporᵐᵉ q̄ꝫ in.f.qꝛ ad pun
cta eq̄lr distātia est.f.ꝓporᵒ inter resiᵃᵐ:sed poᵃ.a.cōtinue
se h̄ēbit ad poᵃᵐ.b.in.f.ꝓporᵐᵉ:ḡ minor tūc erit ꝓporᵒ.a.ad
suā resiᵃᵐ q̄ꝫ.b.ad suā per ꝯn̄eꝫ 27ᵃᵐ q̄nti elemētoꝝ Eucli-
dis:ḡ.a.nō mouebit̄ velociꝰ.b. Nec pōt poni q̄.a. moue-
bit̄ tardiꝰ q̄ꝫ.b.qꝛ si sic tunc minꝰ ꝑtrāsibit q̄ꝫ.b. ḡ sua resiᵃ.
nō erit in.f.ꝓporᵐᵉ maior q̄ꝫ resiᵃ.b.ꝛ poᵃ.a. semꝑ erit in.f.
ꝓporᵐᵉ maior poᵃ.b.ḡ maior tūc erit ꝓporᵒ.a.ad suā resiᵃᵐ
q̄ꝫ.b.ad suā:ꝛ per ꝯn̄s.a.tūc nō mouebit̄ tardiꝰ.b.sequit̄ ḡ
q̄.a.nō mouebit̄ tardiꝰ.b.nec velociꝰ: sꝫ ꝑcise equeᵣ cū.b.
10ª ʒ ❡Si ab extremo remissiori mediꝫ vniᵣ difformis termi-
nati ad nō gᵐ icipiat poᵃ moueri crescēs a nō gᵘ ꝯtiᵉ velo-
cius ꝛ velocius ipsa ꝯtinue intēdet motū suū.Et si ꝯtiᵉ tar-
dius ꝛ tardiꝰ crescet ꝯtinue remittet motū suū.Pⁱᵃ ps sic
arguit̄.Qz.n.intēdet ꝓbat̄:qꝛ sit.a.hōi poᵃ que ꝯtinue velo
cius ꝛ velociꝰ intēdat̄:tūc ifinite tarde icipit intēdi vel cer
teuelociter.Si ifinite tarde:ḡ ifinite tarde incipit moueri.
ꝯn̄a pꝫ:qꝛ si certeueᵣ incipiat moueri ꝛ mediū est vniᵣ dif-
forme:seq̄t̄ q̄ certeueᵣ icipit acq̄rere de resiᵃ ꝛ infiᵗᵉ tarde
incipit acq̄rere de poᵃ ꝛ vtrūqꝫ icipit a nō gᵘ: ḡ maior inci
pit esse resiᵃ q̄ꝫ poᵃ:ꝛ per ꝯn̄s icipit moueri a ꝓporᵐᵉ mino
ris ineq̄litatis qḋ est falsūꝫ.Si ḡ infiᵗᵉ tarde incipit crescē:
seq̄t̄ q̄ infiᵗᵉ tarde icipit moueri:ꝛ per ꝯn̄s intēdet motuꝫ
suū per aliqḋ tp̄s.Si ēt certeueᵣ icipiat crescere: sequit̄ q̄
incipiat intēdere motū suū:qꝛ capiat̄ ḡdus a quo icipit eiꝰ
poᵃ intēdi ꝛ intēdat̄.b.vniᵣ a nō gᵘ mediante isto gᵘ:ꝛ seq̄t̄
q̄ quocūqꝫ instāti dato in illo mouebit̄.a. in aliq̄ certa ꝓ-
portiōe velociꝰ.b.exquo velociꝰ crescet q̄ꝫ.b. ꝛ in nulla ꝓ-
portiōe velocius incipit.a.moueri q̄ꝫ.b.qꝛ si sic in tanta ꝓ-
portiōe inciperet sua resiᵃ esse maior q̄ꝫ resiᵃ.b.ꝛ in nulla ꝓ-
portiōe incipit.a.esse maioris potētie q̄ꝫ.b. quia in illa ꝓ-
portiōe velocius incipit crescere q̄ꝫ.b. ḡ si.a. in aliqua ꝓ-
portōe velociꝰ inciperet moueri q̄ꝫ.b.ꝛ h̄ret resiᵃᵐ maiorem:
seq̄t̄ q̄.a.tardiꝰ inciperet moueri q̄ꝫ.b.ꝯn̄s fl̄ꝫ.sequit̄ ḡ q̄ in
nulla ꝓporᵐᵉ velociꝰ icipit.a.moueri q̄ꝫ.b. ꝛ tn̄ qḋcūqꝫ in-
stans datū.a.mouebit̄ velociꝰ q̄ꝫ.b.ꝛ.b.ꝯtinue mouebitur
vniᵣ:ḡ.a.icipit intēdere motū suū.Et q̄.a.ꝯtiᵉ itēdet arᵣ sic:
qꝛ si nō sit,c.instās in quo desinet intēdē: ꝛ seq̄t̄ q̄ pro illo
instāti nec intēdet motū nec remittet:qꝛ si itēdet ꝛ in nulla
ꝓporᵐᵉ imeᵗᵉ post illḋ instās.f.c.mouebit̄ velociꝰ vel tardiꝰ
q̄ꝫ in isto istāti:qꝛ nec velociꝰ nec tardiꝰ icipiet tūc resiᵃ reᵃ
sui crescere q̄ꝫ ꝑus:nec poᵃ imeᵗᵉ post illud instās velocius
in aliq̄ certa ꝓporᵐᵉ intēdet q̄ꝫ tūc:ḡ si in iᵒ instāti intēdet̄
motꝰ eiꝰ:seq̄t̄ q̄ imediate post iᵈ instās intēdet̄: ḡ tūc non
desinet motꝰ eiꝰ intēdi.Si ēt motꝰ tūc remittet̄:sequit̄ per
ꝯsile argᵐ q̄ ꝑus remittet:ḡ tūc nō desinet intēdi.pꝫ ḡ q̄ si
tūc desinet intēdi q̄ in illo istāti nec intēdet motū suū nec
remittet:sit ḡ.f.ꝓporᵒ.a.poᵉ ad suam resiᵃᵐ in isto instāti:ꝛ
seq̄t̄ q̄ in.f.ꝓporᵐᵉ velociꝰ pro isto instāti crescet.a.q̄ꝫ sua
resiᵃ sicut ꝑus argutū est.Si ḡ mouebit̄ vniᵣ ꝛ equeᵣ sicut
in illo instāti:qꝛ nō subito ad aliquē gᵐ intēdet̄ motꝰ eius
nec remittet̄:ḡ ꝯtinue post iᵈ instās equeᵣ crescet resiᵃ sicut
in illo instāti:ꝛ poᵃ illius velociꝰ ꝛ velociꝰ ꝯtinue crescet:ḡ
ꝯtinue post iᵈ instās q̄ꝫdiu mouebit̄ plus q̄ꝫ in.f.ꝓportiōe
velociꝰ crescet.a.q̄ꝫ sua resiᵃ:ꝛ per falsigraphū inter.a.ꝛ suā
resistentiā ꝯtinue erit.f.ꝓporᵒ: ḡ maior ꝯtinue erit ꝓporᵒ

cremēti.a.supra creᵐ sue resiᵉ q̄ꝫ erit ꝓporᵒ.a.ad suā resiᵃᵐ:
ꝛ si sic vt ꝑus argutū fuit motꝰ eiꝰ tūc intēdet̄. Consilr arᵣ
si dicat̄ q̄ post iᵈ instans remittet motū suuꝫ tūc inciᵖᵉᵗ re-
mittere:qꝛ si sic tūc tardiꝰ crescet sibi resiᵃ q̄ꝫ in illo instāti
ꝛ poᵃ velociꝰ q̄ꝫ in illo instāti:ḡ plus q̄ꝫ in.f.ꝓporᵐᵉ velociꝰ
tūc crescet poᵃ q̄ꝫ resiᵃ:ꝛ per falsigraphū tūc minor erit ꝓ-
portio q̄ꝫ.f.inter.a.ꝛ suā resiᵃᵐ:ḡ tūc velociꝰ ꝓporᵣ intēdet̄
poᵃ q̄ꝫ resiᵃ:ꝛ per ꝯn̄s motꝰ intēdet̄.Et sic seq̄t̄ q̄ in illo in-
stāti dato nō desinet motꝰ eiꝰ intēdi: ꝛ sic de oī alio instāti
est arguēdū:ḡ seq̄t̄ q̄ ꝯtiᵉ itēdet motū suū:qḋ fuit ꝓbādū.
❡Alia ps ꝯsilr arᵣ.s.si tardius ꝛ tardiꝰ intēdat̄ poᵃ q̄ mo
tus eiꝰ ꝯtiᵉ remittet̄:qꝛ q̄ icipiat remitti pꝫ:qꝛ tn̄ qḋcūqꝫ
instās mouebit̄ tardiꝰ q̄ꝫ poᵃ crescēs ꝯtiᵉ equeueᵣ sicut illa
incipit:ꝛ nunq̄ꝫ desinet remitti:qꝛ si sic tūc icipiet manere.
Sit ḡ.f.ꝓporᵒ ex qua tunc mouet̄ vt pono.Et seq̄t̄ exquo
creᵐ poᵉ remittit̄ q̄ imeᵗᵉ post istud instās tardius q̄ꝫ in.f.
ꝓporᵐᵉ velociꝰ crescet ista poᵃ q̄ꝫ resiᵃ sua: ꝛ si motꝰ suꝰ in-
tendet̄ ideꝫ seq̄t̄:ḡ opꝫ q̄ motꝰ eiꝰ remittat̄:illud.n.seq̄tur
ex vtraqꝫ ꝑte opposita si dicat̄. ❡Si poᵃ mouet̄ in meᵒ 11ª ʒ
vniᵣ difformi termiato ad gᵐ vel ad nō gᵐ in extremo re-
missiori sue poᵃ intēdat̄ vel remittat̄ vel nō variet̄ stāte
medio nō variato qualiscūqꝫ erit aliq̄ ꝓporᵒ motus ad
acq̄sitionē resistētie vl̄ deꝑditionē:talis semꝑ erit siue fue
rit ꝓporᵒ eq̄litatis motꝰ ad acq̄sitionē vel decreᵐ resiᵉ siue
ꝓporᵒ ineq̄litatis:moueat̄.n.a.in.b.medio vniᵣ difformi:ꝛ
seq̄t̄ si velociꝰ mouebit̄ ad vnū pūctū q̄ꝫ ad aliū q̄ in qua
ꝓporᵐᵉ motꝰ erit velocior in eadē erit creᵐ poᵉ vel decreᵐ
resiᵉ velociꝰ:qꝛ ꝓporᵣ sic̄ velociꝰ mouebit̄:ita veloꝰ acq̄ret
de spatio:ꝛ oēm ꝑteꝫ eq̄leꝫ trāseūdo eq̄leꝫ latitudinē resiᵉ
acq̄ret vel deꝑdet.pꝫ ḡ q̄ sicut motꝰ erit velocior ad vnuꝫ
punctū q̄ꝫ ad aliū:ita velociꝰ crescet vel decrescet resisten-
tia vndiqꝫ per variationē sue potētie:ꝛ si vnifoᵣ moueat̄
vnifoᵣ acq̄ret resistentiā: ḡ ꝓportio motꝰ ad vnū punctū
ad motū ad aliū punctū se habebit sicut ꝓportio acquisi-
tionis resistētie vel deꝑditionis ad illuꝫ punctum se hꝫ ad
acq̄sitionē vel deꝑditionē resistētie ad aliū:ḡ ꝑmutatim
sicut motꝰ ad vnū se habebit ad acq̄sitionē vel decreᵐ ad
eundeꝫ:ita motꝰ ad aliū se habebit ad creᵐ vel decreᵐ resi
stentie ad eundeꝫ qḋ fuit ꝓbāduꝫ. ❡Si ab extreᵒ remis- 12ª ʒ
siori mediꝫ vnifoᵣ difformis termiati ad nō gᵐ icipiat poᵃ
moueri crescēs a nō gradu potētie ꝛ a nō gradu cremēti
cuiꝰ creᵐ vnifoᵣ intēdet̄:motꝰ ille tardiꝰ ꝛ tardius ꝯtinue
intendet̄ deductis alijs īpedimētis ꝛ iuuamētis: ita q̄ so-
lum moueat̄ ex ꝓportiōe sue potētie ad resistentiam sibi
imediatā.Qz.n.intēdet motū suū ꝯtinue pꝫ per ꝯn̄eꝫ 10ᵃᵐ:
ꝛ q̄ nō vnifoᵣ intendet nec velocius ꝛ velociꝰ arguit̄ sic.
In infinitū tarde incipit eius poᵃ intēdi: ḡ infinituꝫ tarde
incipit poᵃ moueri.ꝯn̄a arguta est ꝯn̄e 10ᵃ huius capituli.
Et ex ꝯn̄te arguit̄ sic.a nō gradu incipit motꝰ iste intendi:
ergo si vnifoᵣ intēdet̄: in triplo plus ꝑtrāsibit̄ in scḋa me
dietate illius tp̄is q̄ꝫ in ꝑᵃ: ḡ in fine in q̄druplo plus dista-
bit ab extremo remissiori huius mediꝫ q̄ꝫ in instāti meᵒ:ꝛ
per ꝯn̄s resiᵃ quā in fine habebit erit in q̄druplo maior q̄ꝫ
in instāti medio:ꝛ poᵃ sua erit in fine ꝑcise in q̄druplo ma
ior q̄ꝫ in instanti medio:ḡ in fine mouebit̄ equeueᵣ ꝑcise
sicut in instāti medio.ꝯn̄s est falsuꝫ. ꝛ minor pꝫ:quia creᵐ
illiꝰ poᵉ crescit vnifoᵣ a nō gradu:ḡ in triplo plus acq̄ret
de poᵃ in scḋa medietate illiꝰ tp̄is q̄ꝫ in ꝑᵃ:ꝛ illa poᵃ acq̄ret̄
a nō gᵘ:ḡ in fine erit in q̄druplo maior q̄ꝫ in instāti medio:
exquo seq̄t̄ vt ꝑus si vnifoᵣ intēdet q̄ motꝰ suꝰ in fine erit
equeuelox ꝑcise sicut in instāti medio.ꝯn̄s fl̄m: qꝛ tūc non
ꝯtinue intēderet̄ qḋ est falsuꝫ.seq̄t̄ ergo q̄ nō vnifoᵣ intē
det nec velociꝰ ꝛ velociꝰ:qꝛ si sic plus q̄ꝫ triplum ꝑtrāsibit
in scḋa medietate tp̄is q̄ꝫ in ꝑma:cuꝫ ḡ medium termінet̄
ad non gradum:sequit̄ q̄ resistentia quaꝫ habebit in fine

erit plus ꝙ̃ quadrupla ad reſiſ^tm quã habebit in inſtãti medio ꝛ po^a in fine erit preciſe in q̃druplo maioꝛ ꝙ̃ in pn^o vt argumẽ eſt:ꝫ in fine erit minoꝛ ꝓpoꝛ^o po^e ad ſuaꝫ reſiſ^tm ꝙ̃ ꝑus.ſ.ꝙ̃ in inſtãti medio.ↄ̃ñs falſuꝫ:q2 mot^e eius ↄtinue intendet ſiue ꝗ intẽderet mot^e ei^o vni^r ſiue veloci^o ꝛ veloci^o: ſeq̃ꝫ ꝙ aliq̃ñ remittet.ↄ̃ñs ſꝫ.relinq̃ꝫ ꝗ ꝙ mot^e ei^o ↄtinue
13ª ʒ tardius ꝛ tardi^o intẽdet:qḋ fuit ꝓbãduꝫ. ¶ Si ab eodeꝫ puncto medij vni^r difformis ad queꝫ eſt cert^o g^o reſiſtẽtie incipiãt due po^e ineq̃les moueriq̃ue vni^r ꝛ eque^r intẽdãt quaꝝ maioꝛ ↄtinue vnifoꝛ^r mouebit:minoꝛ ↄtinue intendet motũ:ꝛ ſi maioꝛ ꝙ̃ aliq̃ illaꝝ poneret ad eundẽ pũctũ ꝛ equeuelociter intẽderet cũ illis,iſta ↄtinue remittet motũ ſuũ.Sit.n.a.i^a que vni^r mouebit ꝛ.b. po^a minoꝛ eque^r creſcẽs cũ.a.ꝛ arguit ſic.Veloci^o ꝓpoꝛ^r incipit.b. creſcere ꝙ̃.a.ꝛ reſiſ^a.b.tardi^o ꝓpoꝛ^r icipit creſcẽ ꝙ̃ reſiſ^a.a.ꝛ.a.ꝛ ſua reſiſtẽtia ↄtinue ꝓportiõabilr intẽdet:ꝗ veloci^o ꝓpoꝛ^r incipit.b.intẽdi ꝙ̃ ſua reſiſ^a.ꝛ per ↄ̃ñs icipit intẽdere motuꝫ ſuũ.ↄ̃ña pꝫ:ꝛ añs ſic arguit.b.eſt equalr creſcẽs cũ.a. ꝛ eſt min^o.a.ꝗ veloci^o ꝓportionabilr creſcat.b.ꝙ̃.a.ↄ̃ña cũ añte ſatis pꝫ:ꝛ alia ps añtis arguit:q2.b.mouet vel incipit moueri tardi^o ꝙ̃.a.ꝗ tardius icipit reſiſtẽtia creſcere re^a.b.ꝙ̃ re^a.a.ꝛ reſiſtẽtie.a.b.ſunt eq̃les:ꝗ veloci^o ꝓpoꝛ^r icipit reſiſ^a a.creſcere ꝙ̃ reſiſ^a.b.ꝛ.a.eque ꝓpoꝛ^r ↄtinue creſcet cuꝫ ſua reſiſtentia:exquo ↄtinue vni^r mouebit:ꝗ ſeq̃ꝫ ꝙ.b.ꝓpoꝛ^r veloci^o incipit creſcere ꝙ̃ ſua reſiſtẽtia:ꝛ per ↄ̃ñs.b.icipit intẽdere motũ ſuũ.Et ↄtinue intẽdet motũ ſuũ:q2 ſi nõ det inſtans ꝛ ſit.c.in quo deſinet intẽdere:ꝛ ſit.d.punct^o ad quẽ tunc erit:vel ꝗ tũc mouebit eque^r cũ.a.vel veloci^o vel tardi^o. Si tardi^o tũc mouebit.b.ꝙ̃.a.ꝛ.a. vndiq̃ꝫ vnifoꝛ^r mouebit:ꝗ in.c.inſtãti mouebit.b.tardi^o ad.d.pũctũ ꝙ̃.a.mouebit cũ deuenerit ad eundẽ:ꝗ in.c.inſtãti erit.b.minoris po^e ꝙ̃ erit.a.cũ deuenerit ad.d.punctũ. Sed cũ.a.deuenerit ad.d.nõ intẽdet motũ nec remittet:ꝗ ad illuꝫ punctũ in c.inſtãti intẽdet.b.motũ ſuũ.ↄ̃ña tenet:ſicut argumẽ eſt pro ꝑn^o tp̃is.ꝛ per ↄ̃ñs tũc nõ deſinet intẽdere motũ ſuũ. Si ꝗ in.c.inſtãti mouebit.b.veloci^o ꝙ̃.a.ꝛ q̃ñcũq̃ꝫ.a.ad aliqueꝫ punctũ deuenerit ad illuꝫ equeue^r mouebit ſic ad aliquẽ aliũ:q2 vnifoꝛ^r mouebit ↄtinue:ꝗ in.c.mouebit.b. veloci^o ꝙ̃.a.mouebit cũ deuenerit ad.d.punctũ:ꝛ per ↄ̃ñs in.c.inſtanti erit.b.maioris potẽtie ꝙ̃ erit.a.cũ ipm ad.d.punctũ deuenerit:ꝗ tardius ꝓpoꝛ^r creſcet tũc.b.ꝙ̃.a.creſcet ad.d. punctũ:ꝛ ſua reſiſ^a veloci^o ꝓpoꝛ^r creſcet ꝙ̃ reſiſ^a.a.ad illum punctũ:q2 veloci^o ſimplr creſcet:eo ꝙ.b.mouebit veloci^o ꝙ̃.a.ꝗ tũc tardi^o ꝓpoꝛ^r creſcet.b.ꝙ̃ ſua reſiſ^a: ꝛ ꝑ ↄ̃ñs tunc remittet motũ.Et ſi ſic nõ tũc deſinet intẽdere: q2 ex q̃ tũc remittet ante i^d inſtãs remittet: ꝛ ſi ſic:tũc ꝗ nõ deſinet intendere.Si ꝗ eque^r tũc mouebit.b.ſic.a.ꝗ in illo inſtãti.ſ. c.erit.b.tante potẽtie ſicut erit.a. cũ deuenerit ad.d. diminuat ꝗ.a.quouſq̃ꝫ fuerit tãte potẽtie ſicut.b.ꝛ ponat ad.d. punctũ cuꝫ.b.ꝛ diminuat.a.b.equeue^r oĩo ſicut ꝑus intendebat:ꝛ ſeq̃ꝫ ꝙ ſicut.a.mouẽdo ab extremo remiſſiori ſui medij ad.d.vnifoꝛ^r ↄtinue mouebit:ita eꝫ per ſil'eꝫ remiſſionẽ ſue potẽtie vni^r ↄtinue mouebit:ꝛ ſicut.b.in via maioꝛationis ſue potẽtie ↄtinue intẽdebat motũ ſuũ: ita in via remiſſionis ↄtinue remittet motũ ſuũ.Sed ↄ̃ñs eſt ſꝫ:q2 ſit nũc i^d inſtãs in quo icipiũt remitti eꝫ mouẽdo ꝛ ar^r ſic. Ab illo.d.puncto incipiũt.a.b.moueri:cuius potẽtie ſemꝑ eq̃les erũt:q2 nũc ſũt eq̃les ꝛ eque^r remittent ↄtinue: ergo eque^r ↄtinue mouebunt.ↄ̃ña tꝫ: q2 nõ eſt maioꝛ rõ q̃re.a. ꝓcederet.b.qn eadeꝫ rõne.b.ꝓcederet.a. cũ ꝗ mot^o.a.cõtinue erit vniformis:ſeq̃ꝫ ꝙ mot^o.b.ↄtinue erit ẽt vnifoꝛ^m. ↄ̃ñs falſuꝫ:q2 mot^e eius remittet ſicut ꝑus intẽdebat:ſeq̃ꝫ ergo ꝙ in inſtãti in quo ponit.b.deſinere intẽdere motuꝫ ſuũ ꝙ in i^o inſtãti mouebit ꝛ nõ velocius ꝙ̃.a.nec tardius: nec eque^r cũ eo qḋ eſt ipoſſi:exquo vtrũq̃ꝫ tunc mouebit.

Eadeꝫ ↄcl'o alr demõſtrat:ꝑmo tñ ꝓbatur hec concluſio.
¶ Si ad aliquẽ punctũ medij vnifoꝛ^r difformis terminati 14ª ʒ ad nõ g^m icipiat po^a moueri q̃ ↄtinue ꝑ vniformẽ intẽſionẽ ſue po^e vni^r ↄtinue mouebit:quecũq̃ꝫ po^a mioꝛ poſſet ad aliquẽ punctũ incipe moueri:q̃ tñ equeueloci intẽſione ſue po^e itẽderet ſic erit intẽſio ꝑ^e po^e vni^r ↄti^e mouebit:q2 ſi nõ.ꝫ ſit.a.po^a mouẽs ad aliquẽ pũctũ que ꝑ intẽſionem vniformẽ ſue po^e vni^r ↄti^e moueat:ꝛ ſit.b.po^a mioꝛ eque^r ꝛ ↄti^e creſcẽs cũ.a.ꝛ ꝓbat ꝙ aliq̃s eſt punct^o ad queꝫ ſi.b. poneret ipm.b.ↄti^e vni^r moueretur.creſcat.n.c.po^a vni^r a nõ g^o eque^r ſic ponit.a.b.creſcere:ꝛ ſeq̃ꝫ ꝑ ↄ̃neꝫ ꝑmã ꝙ.c. ↄti^e vni^r moueret. det ꝗ illud inſtãs in quo erit.c.equalis po^e ſic nũc eſt.b.tũc ꝗ.c.erit ad aliquẽ punctũ illi^o medij q̃ ſit.d.ꝛ ↄti^e poſt i^d inſtãs mouebit vni^r:ꝗ ſi.b.in ꝑn^o poneret ad illũ pũctũ:ſeq̃ꝫ ꝙ.b.cũ iſta intẽſiõe ſue po^e vnifoꝛ^r moueret:q2 ↄti^e erit eq̃lis po^e ſic erit.c.poſt.d.inſtãs. Vel ponat ꝙ añ ꝫ creuerit.c.i^o g^o quo creſcẽt.a.b.ita ꝙ nũc ſit.c. eq̃lis.b.ꝛ ponat.b.ad illũ pũctũ ad quẽ erit.c. ꝛ ſeq̃ꝫ ꝙ ſic c.mouebit vni^r:ita ꝛ.b. mouebit vnifoꝛ^r: q2 eque^r ↄtinue cũ.c.exquo po^e ſemꝑ erũt eq̃les. ¶ Seq̃ꝫ ꝗ iſta ↄcl'o ex q̃ facillime demõſtrat ↄcl'o ꝓcedẽs:q2 det.a.po^a q̃ icipiẽdo motũ in extre^o hui^o medij vni^r difformis moueat cõtinue vnifoꝛ^r per vniformẽ intenſionẽ ſue po^e:ꝛ ſit.b.po^a minoꝛ equeue^r creſcẽs cũ.a.ꝛ ponat ad eundẽ punctũ cuꝫ.a. Ponat tũc ꝙ iſti me^o iungat me^m vnifoꝛ^r diffoꝛ^e terminatũ in extre^o intẽſiori ad g^m remiſſiſſimũ illi^o medij in quo ponũtur.a.b.moueri ꝛ termiet in alio extr^o ad nõ g^m:ita ꝙ totũ me^m ſit vnifoꝛ^r diffoꝛ^e terminatũ ad nõ g^m ſicut totũ mediũ ex alijs duob^o cõpoſitũ.ꝛ ſeq̃ꝫ vt ꝓbatũ eſt in hac ↄ̃ne 14^a ꝙ aliq̃s eſt punct^o illi^o medij ad quẽ ſi.b. poneret cuꝫ iſta intẽſione po^e vnifoꝛ^r ↄtinue moueret. Ponat ꝗ.c.potẽtia eq̃lis.b.ad illuꝫ punctũ q̃ ſemꝑ eque^r intẽdat cũ.b.ꝛ ſeq̃ꝫ ꝙ.c.ↄtinue mouebit vni^r ſic faceret.b.ſi ibi poneret:ꝛ.b. ↄtinue mouebit cũ reſiſ^a maiori ꝙ̃.c.ergo ꝑ ↄ̃neꝫ q̃rtã.b. cõtinue intẽdet motũ ſuũ. Minoꝛ pꝫ:q2 exquo.b.ad punctũ ad quẽ nũc eſt veloci^o ꝓpoꝛ^r creſcet ꝙ̃ ſua reſiſ^a: q2 incipit intẽdere motũ ſuũ vt ꝓbatũ eſt ꝑ^a ꝓbatiõe ↄ̃nis.13. Sed ad oẽm punctũ magis reſiſtentẽ tardius creſcet ſibi reſiſ^a ꝙ̃ ad illuꝫ:exquo mot^o eẽt ibi:tardioꝛ:ꝗ tardi^o ꝓpoꝛ^r creſcet ſibi reſiſ^a ad punctũ magis reſiſtentẽ ꝙ̃ ad punctuꝫ ad quẽ nũc ſunt.a.b.ꝛ per ↄ̃ñs ad oẽm punctũ magis reſiſtentẽ ꝙ̃ eſt ille punct^o ad quẽ nũc ſunt.a.b. veloci^o ꝓpoꝛ^r creſcet po^a ꝙ̃ reſiſ^a.Et ſi ſic cũ.c.po^a eq̃lis.b.cũ eq̃li cremẽto eque ꝓpoꝛ^r ↄtinue creſcet cũ ſua reſiſ^a:ſequit ꝙ.c.eſt ad punctũ cui minoꝛ reſiſtẽtia correſpõdet ꝙ̃ eſt ad punctũ vbi nũc eſt.b.Et per ↄ̃ñs.c.nunq̃ꝫ attiget.b. q2 po^e ille ſunt eq̃les ꝛ ſemꝑ erũt:ꝛ per ↄ̃ñs ſeq̃ꝫ minoꝛ.vꝫ.ꝙ.b. ↄtinue mouebit cũ reſiſtẽtia maiori ꝙ̃.c.exquo ſeq̃ꝫ per ↄ̃neꝫ q̃rtaꝫ ꝙ.b.ↄtinue intẽdet motũ ſuũ:ꝗ ſeq̃ꝫ ꝑ^a ps ↄ̃nis. ¶ Cõſilr oĩo arguit ſcḋa pars ꝙ ſi maioꝛ po^a.a.poneret ad eundeꝫ punctũ cũ.a.vnifoꝛ^r mouẽte ↄtinue remittet motũ ſuũ:q2 veloci^o ꝓportionabilr incipit ſua reſiſ^a creſcere ꝙ̃ reſiſ^a.a. exquo eſt eq̃lis: ꝛ veloci^o incipit creſcere ꝛ tardius ꝓpoꝛ^a incipit hꝫ po^a creſcere ꝙ̃.a.q2 eſt maioꝛ ꝙ̃.a.eque^r creſcẽs cũ ea:ꝛ.a.ꝛ ſua reſiſ^a eque ꝓportiõabilr ↄti^e creſcũt:ꝗ veloci^o ꝓportiõabilr icipit reſiſ^a talis po^e creſcẽ ꝙ̃ ipſa po^a:ꝛ ꝑ ↄ̃ñs icipit remittẽ mo^m ſuũ. ꝛ ſic ar^r ꝙ ↄtinue remittet ſic ꝑus arguebat ꝙ po^a minoꝛ.a.ↄtinue intẽdet motũ ſuũ.

Contra ꝑ^{es} iſtaꝝ ↄ̃nuꝫ ponat ꝙ.b.ſit me^m vni^r diffoꝛ^r ʒ ꝑmaꝫ ↄ̃nem
me terminatũ ad nõ g^m reſiſ^e in vno extremo quo extremo incipiat.a.po^a mouere creſcẽs vni^r a nõ g^o.ꝛ ponat ꝙ ad oẽm punctũ illi^o.b.medij icipiat po^a creſcẽ a nõ g^o vnifoꝛ^r ↄtinue creſcẽs ſicut po^a.a.ꝛ ſeq̃ꝫ ꝑ ↄ̃neꝫ 5^{am}: ꝙ queliꝫ illaꝝ q̃ñcũq̃ꝫ mouebit itẽdet mo^m ſuũ ꝛ.a.ↄtinue mouebit cũ aliq̃ illaꝝ eque^r:ꝗ.a.intẽdet motũ ſuũ:ꝛ per.

ꝯñs nõ ꝯtinue mouebit̃ vniformiter. Añs ſic arguit̃. Per
infi^m modicũ incipit.a.diſtare ab aliqua illaꝝ po^{rũ}:⁊.a.cõ
tinue mouebit̃ velociꝰ ꝙ̃ aliq̃ illaꝝ.ḡ attinget aliq̃ illaꝝ:⁊
poſtꝙ̃ aliquã illaꝝ tetigerit ſemꝑ mouebit̃ equeuẽ cum
ea:q: oẽs iſte po^e ſemꝑ erũt eq̃les:ḡ.a. intẽdet motũ ſuũ ⁊
ꝯtinue mouebit̃ equeuẽ cũ aliq̃ illaꝝ. Añs arguit̃:q: ſi.a.
nõ attinget aliquã quelꝫ illaꝝ ꝯtinue mouebit cũ reſiſten
tia maiori ꝙ̃.a.⁊ per ꝯñs.a.ꝯtinue mouebit̃ a ꝓpor^{ne} ma
iori ꝙ̃ aliq̃ illaꝝ:⁊ ſi ſic.a.cõtinue mouebit̃ velociꝰ ꝙ̃ aliq̃
illaꝝ potẽtiaꝝ. Et ꝙ.a.nõ attinget aliquã illaꝝ ſatis pꝫ:q:
nõ anteꝙ̃ illa mouebit̃ vt arguitũ eſt ꝯne gnta nec poſtꝙ̃
ſequit̃ añs:exquo inducit̃ oppo^m ꝯnis primeꝙ̃ ꝯ eſt falſa.
¶ Pro iſtis admittit̃ caſus ⁊ ꝯcedit̃ ꝙ quelꝫ ꝯtinue intẽ
det motũ ſuũ:⁊ etiã ꝯcedit̃ ꝙ.a.ꝯtinue mouebit̃ velocius
ꝙ̃ aliqua illaꝝ.⁊ negat̃ ꝯña qñ ꝯcludit̃ ꝙ.a.attiget aliquã
illaꝝ:ita ꝙ erit ad eundeꝫ punctũ cũ aliq̃ illaꝝ:ſꝫ bñ ſeq̃t
ꝙ per infi^m modicũ ꝯtinue diſtabit ab aliq̃ illaꝝ:⁊ idẽ eſt
cõcedendũ. vñ in caſu ſubito intẽdet aliqua illaꝝ motũ
ſuũ a nõ g^{ᵒ} vſqꝫ ad graduꝫ quo mouebit̃.a.excluſiue:q: ꝑ
infinitũ modicũ ꝯtinue diſtabit.a.ab aliqua illaꝝ vt notũ
eſt:eo ꝙ ꝯtinue mouebit̃ velociꝰ ꝙ̃ aliqua illaꝝ:⁊ per infi
nitũ modicũ nũc diſtat ab aliqua illaꝝ vel incipit diſtare.
Similr̃ lꝫ quelꝫ illaꝝ ꝯtinue intendet motũ ſuũ: nunꝙ̃ tñ
mouebit̃ aliqua iſtaꝝ equeuẽ cũ.a. q: quelꝫ illaꝝ ꝯtinue
ꝓcedet.a.vt arguitũ eſt:ideo tardius ⁊ tardiꝰ intẽdet quelꝫ
illaꝝ motũ ſuũ:q: reſiſtẽtia velociꝰ ⁊ velociꝰ creſcet:⁊ po^a
34m vnifor^r:⁊ ſic nõ ꝓcedit arg^m. ¶ Quarte ꝯcl̃oni ſic obijcit̃.
Si in caſu poſito.b.ꝯtinue mouebit̃ velocius.a. ⁊ ꝑ finitũ
ſoluꝫ diſtat ab.a.ergo in aliquo tpe finito põt attingere.a.
Conſequẽtia arguit̃ ſic. Exquo.b.ꝯtinue mouebit̃ velociꝰ
a.⁊ motꝰ eius gradui intẽſiori corrñdebit ꝙ̃ motus.a.ſit ḡ
f.ꝓportio motus.b.ad motũ.a.⁊ ſeq̃t̃ ꝙ quãtãcũqꝫ mo
dica ſit.f.ꝓportio,tantũ põt eſſe mediũ aut diſtãtia inter.b.
⁊ aliquẽ punctuꝫ illius medij qõ ſe habeat in.f.ꝓpor^{ne} ad
diſtãtiã inter.a.⁊ eundem punctũ ſicut imaginato medio
infinito ita ꝙ in oĩ pte equali illiꝰ ſit equalis latitudo ſic ꝙ
oĩs pars eius finita ſit vnifor^r difformis: ⁊ nõ eſt dubiũ ꝙ
nõ eſt aliqua ꝓportio imaginabilis:q̃n diſtantia inter.b.⁊
aliquẽ punctũ illiꝰ medij ſe habeat in tanta ꝓpor^{ne} ad di
ſtantiã inter.a.⁊ eundẽ punctũ:exquo infinite magna eſt di
ſtantia inter.a.⁊ aliquẽ punctuꝫ:⁊ etiã infi^{te} modica eſt di
ſtantia inter.a.⁊ aliquẽ punctũ. ¶ Pro iſtis dĩ cõcedendo
ꝯneꝫ:⁊ negat̃ ꝯña pᵃ. vñ dꝫ tardius ⁊ tardiꝰ remittere mo^m
ſuũ:ſic ꝙ per quãtãcũqꝫ tp̃s remittat,nunꝙ̃ deueniat ad
eq̃litatẽ motꝰ illiꝰ.a. Tũc ad ꝓbationẽ dĩ ꝙ nullus ẽ ḡdus
cui ꝯti^e corrñdebit eiꝰ motꝰ:ſꝫ in aliq̃ tpe corrñdebit ſiue
motꝰ gradui intẽſiori ꝙ̃ eſt motꝰ.a.⁊ in aliqua ꝓpor^{ne} grã
exẽpli dupla ⁊ in tpe maiori corrñdebit eius motꝰ gradui
intẽſiori ꝙ̃ eſt motꝰ.a.⁊ hoc in miori ꝓpor^{ne} ꝙ̃ dupla ⁊ ſic
in infi^m:ita ꝙ ĩfinite modice intẽſiori ḡdui ꝙ̃ eſt motus.a.
poterit corrñdere. Et tũc qñ põit̃ ꝙ.f.ſit ꝓpor^o ⁊c̃. admit
tit̃ iſto mõ:ꝙ dato tpe aliquo in illo corrñdeat motꝰ.b.gra
dui in.f.ꝓpor^{ne} intẽſiori ꝙ̃ eſt motꝰ.a.⁊ ꝯcedit̃ ꝙ aliq̃s eſt
punctꝰ ad quẽ diſtãtia inter.b.⁊ illũ ſe hꝫ in.f.ꝓportiõe ad
diſtantiã inter.a.⁊ eundeꝫ punctũ.⁊ dĩ ꝙ in iſto tpe in quo
motꝰ.b.corrñdebit ḡdui in.f.ꝓpor^{ne} intẽſiori ꝙ̃ motus.a.
nõ deueniet ad illuꝫ punctũ nec etiã.b. ſed cũ.a.deuenerit
ad illũ punctũ corrñdebit motꝰ.b.gradui remiſſiori ꝙ̃ eſt
g^ᵒ ſe hñs ad motũ.a.in.f.ꝓpor^{ne}:alr̃.n.bñ ꝓcederet argu^m.
Unde in caſu iſto quecũqꝫ fuerit ꝓpor^o diſtãtie inter.b.⁊
aliquẽ punctũ illiꝰ medij ad diſtãtiã inter.a. ⁊ eundẽ cũ.a.
ad illuꝫ pũctũ deuenerit erit totꝰ motꝰ.b.ꝓcedẽs ad motũ
a.in minori ꝓpor^{ne} ꝙ̃ eſt illa data:q: vt arguitũ eſt ad oẽꝫ
punctũ illiꝰ medij ciꝰ deueniet.a.ꝙ̃.b. Sed ſi eſſet tanta
ꝓportio motuũ.a.b.ſicut ſuaꝝ diſtãtiaꝝ,equeciꝰ ad illuꝫ
punctũ deuenirent vt notũ eſt:ſed id eſt flm.pꝫ ergo ſolo
illius argumẽti. ¶ Cõtra decimã ꝯneꝫ arguit̃ ſic. Ponat̃ ꝯ 10m
ꝙ.c.ſit mediũ vnifor^r difforme terminatũ ad nõ graduꝫ a
cuiꝰ extre^o remiſſiori incipiat.a.po^a mouere creſcens vni^r
a nõ g^ᵒ ⁊ incipiat.b.intẽdi a nõ g^ᵒ po^e ⁊ tardiꝰ icipiat intẽ
di ꝙ̃.a.⁊ intẽdat̃ ꝯti^e velociꝰ ⁊ velociꝰ:tũc ar^r ꝙ.b. nõ ꝯti^e
intẽdet motũ ſuũ:quia ſignet̃ id inſtãs in quo mouebit̃.b.
eque^r ſicut.a.⁊ ponat̃ ꝙ ꝑtũc eque^r ꝑciſe intẽdat̃.b.in po^a
ſicut.a.ꝯti^e intẽderet̃ ſicut appꝫ eſſe poſſe:eo ꝙ in aliq̃ tpe
põt intẽdere motũ ſuũ ad g^m ipſius.a.⁊ in tpe ſubduplo ⁊
ſic in ĩfi^m:ḡ ſua po^a põt aliqualr̃ velociter intẽdi cũ motus
ſuꝰ fuerit eq̃lis motui.a.⁊ in duᵒ velociᵒ ⁊ ſic in ĩfi^m:ḡ caſus
eſt poſſis. Sit ḡ.d.id inſtans in quo motꝰ.a.b. erũt eq̃les ⁊
ſit.c.punctꝰ ad quẽ tunc erit.b.⁊ ar^r ſic. In.d.inſtãti moue
bit̃.b.eque^r ſicut mouebit̃.a.in eodẽ inſtãti:⁊.a.tũc moue
bit̃ ꝑciſe eque^r ſicut mouebit̃ ad aliquẽ pũctũ cũ ad illũ fue
rit:exquo motꝰ eiꝰ manebit ꝯti^e vnifor^m:ḡ cũ.a. deuenerit
ad.c.punctũ mouebit̃ eque^r ſic in.d.inſtãti mouebit̃.b.ad
eundẽ.ḡ cũ.a.fuerit ad.c.punctũ erit tante po^e ſicut.b.erit
in.d.inſtãti. Diminuat̃ ḡ.a.ad eq̃litatẽ.b.⁊ ponat̃ ad.c.pun
ctũ cũ.b.qñ.ſ.eſt factũ eq̃lis po^e eiꝫ.b.⁊ diminuat̃ vtrũqꝫ
illoꝝ ꝯſilr̃ oĩo ſicut ꝑus intendebat̃.ſ.a.vni^r ⁊.b. tardius ⁊
tardiꝰ:ita ꝙ in oĩ inſtãti in via diminutiõis ſit vtrũqꝫ ꝑciſe
tãte po^e ſic in iſtãti corrñdenti in via augmẽtatiõis:⁊ ſeq̃t̃
ꝙ vtrũqꝫ oĩo ꝯſilr̃ mouebit̃ ab.c.vſus extremũ remiſſius
ſicut ꝑus mouebat̃ ab extremo remiſſiori vſus eundeꝫ.c.
punctũ.moueat̃.n.vſus extremũ remiſſius in via diminu
tionis:⁊ cũ ḡ.a.in via augmẽtatiõis mouebit̃ vni^r ꝯtinue ⁊
b.intẽdet motũ ſuũ: ſeq̃t̃ ꝙ in via diminutiõis mouebit̃ ꝙ̃
a.vni^r ⁊.b.remittet motũ ſuũ.ſꝫ ꝯñs ẽ flꝫ:ḡ ⁊ añs. Falſitas
ꝯñtis pꝫ:q:.a.b.eque^r mouebunt̃ in.d.inſtãti: ⁊ tũc icipiet
b.moueri velociᵒ ꝙ̃.a.⁊.a.ꝯtinue vni^r mouebit̃. ḡ in iſto in
ſtanti icipiet.b.intẽdere motũ ſuũ ⁊ nõ remittere. Añs pꝫ:
q:.a.⁊.b.tũc erũt eq̃lis po^e ⁊.a.ꝯtinue velociꝰ diminuet̃ in
po^a ꝙ̃.b.q:.a.ꝯtinue eque^r diminuet̃ in po^a ſic in iſto inſtã
ti ⁊.b.tardiꝰ ⁊ tardiᵒ ꝯti^e diminuet̃:ḡ tũc icipiet.b.eẽ maio
ris po^e ꝙ̃.a.⁊ ꝑ ꝯñs icipiet ꝓcedere.a.q: idẽ me^m ciꝰ ꝑtrã
ſibit̃ a po^a a^{re} ꝙ̃ a minori:ḡ.b.tũc icipiet moueri cũ reſi^a mi
nori:⁊ ꝑ ꝯñs velociꝰ tũc icipiet moueri ꝙ̃.a. Et ſic arg^r ꝙ.b.
ꝯti^e velociᵒ mouebit̃ ꝙ̃.a. q: oẽꝫ punctũ illiꝰ medij citiꝰ
ꝑtranſibit ꝙ̃.a.exq̃ ſua po^a ꝯti^e erit maior ꝙ̃ po^a.a. ⁊ ſi ſic
ꝯti^e mouebit̃.b.cũ reſi^a minori ꝙ̃.a.⁊ cũ po^a maiori: ḡ ve
lociᵒ ꝯti^e mouebit̃.b.ꝙ̃.a.⁊ ꝑ ꝯñs in via diminutiõis intẽ
det mo^m:ḡ ꝑus in via augmẽtatiõis remittet motũ: ḡ ꝯcl̃o
falſa. ¶ Pro iſto dĩ ꝯcedendo ꝯnẽ vt ar^m demõſtrat ⁊ ad
caſuꝫ ne^r hec ꝑicula cũ ponit̃ ꝙ qñ motꝰ.a.b. erunt eq̃les
ꝙ tũc intẽſiones ſuaꝝ po^{rũ} erũt eq̃les: q: tũc ſeq̃t̃ ꝙ.b.in
via diminutiõis itẽdet mo^m ſuũ vt arguitũ eſt. Et idẽ ſeq̃t̃ ſi
tardiᵒ tũc intẽdet̃.b.ꝙ̃.a.q: tũc tardiꝰ icipet.b. remitti:⁊ ꝑ
ꝯñs tũc incipet ſua po^a eẽ maior ꝙ̃.a.ḡ tũc icipet.b.moue
ri velociꝰ ꝙ̃.a.⁊ ſi ſic.b.tũc incipet intẽdere motũ ſuũ.ꝯñs
eſt flꝫ.cũ.a.ꝯti^e mouebit̃ in via diminutiõis vni^r ⁊ eque^r ſic
in iſto inſtãti. Uel ſic. Ponat̃ ꝙ.b.ꝯti^e velociᵒ ⁊ velociꝰ in
tendat̃ in po^a ⁊ ſit.d.inſtãs in quo mouebit̃ eque^r cũ.a.tũc
b.ꝯti^e intẽdet motũ ſuũ vt arguitũ eſt in iſta 10ª ꝯne: ḡ per
d.inſtãs intẽdet̃ motꝰ.b.⁊ motꝰ.a.ꝯtinue manebit vnifor
mis:ḡ cũ.a.fuerit ad illuꝫ punctũ erit ꝑciſe tante po^e ſicut
erit.b.ad eundẽ punctũ:⁊.a.nõ intẽdet mo^m ſuũ ꝑtunc ad
iſtũ punctũ n^e remittet ⁊.b.tunc intẽdet:ḡ velocius tũc in
tendet̃.b.in potẽtia ꝙ̃.a.qđ fuit ꝓbãduꝫ. Et ſic nõ ꝓcedit
argu^m ꝯ ꝯnem. ¶ Concl̃om 12^e ſic obijcit̃. Ubi po^a ſic cre ꝯ 12m
ſcit a nõ g^ᵒ:cuius cre^m vni^r a nõ g^ᵒ intẽdit̃ ĩfinite tarde ici
pit motꝰ intẽdi:ḡ nõ ꝯti^e tardiꝰ ⁊ tardiꝰ intẽdere:q: tũc ꝯti
nue ĩfinite tarde vel tardiꝰ ꝙ̃ infinite tarde intendet̃. Añs
ſic arguit̃. Sit.a.hꝫ potẽtia creſcens vt ponit̃ in ꝯne:⁊ ſic

b. ſuum mediū: ⁊ arguit̄ ſic. a. icipit intēdere motū ſuū vel ergo infinite tarde vel infite velociter vel ſolū finite velo. Si infinite tarde hī ppo. Si ḡ ifinite velociter icipit motus eius intēdi cū a nō g icipit motꝰ eius intēdi ⁊ cre po vni icipit a nō g intēdere: ḡ ifite velocꝰ icipit motꝰ. a. intendi q̄ȝ cre ſue po: ⁊ a nō g icipit motꝰ intēdi ſic ⁊ cre po vt argutū eſt in ꝓbatiōe ꝯñs eiuſdeȝ: ḡ ifinite magna incipit eē ppor motꝰ ad acq̄ſitionē po ⁊ ſolū finita icipit eē ppor motꝰ ad cre reſi ſiue fuerit ppor maioris ieq̄litatis ſiue eq̄litatis ſiue minoris ieq̄litatis: ḡ ifite mag icipit eē ppor reſi ad po: ⁊ per ꝯñs nō icipit eē motꝰ: vel ſi icipiat ꝓueniat a ppor minoris ieq̄litatis. oēs ꝯñe patēt. Añs arguit̄. ſ. q̄ ſolū finita icipit eē ppor mo ad acq̄ſitionem reſi: q2 cū q̄ me eſt vni diffor ⁊ motꝰ erit aliq̄n ſub aliq̄ g: ḡ aliq̄n erit fita ppor motꝰ ad cre reſi ⁊ per ꝯñeȝ 11e q̄lis aliq̄n erit ppor motꝰ ad cre reſi in me vnifor difformi: talis ſp erit q̄lrcūq3 mobile varieē: ḡ nūc incipit eē ſoluȝ finita ppor motꝰ ad cre reſi exquo deducit̄ vt ꝑus q̄ velocꝰ icipit reſi intēdi q̄ȝ po. id ḡ nō pōt poni. ſ. q̄ ifite velociter icipit motꝰ eiꝰ intēdi. Si ḡ di 3o. ſ. q̄ ſoluȝ finite velocit̄ icipit motꝰ eius intēdi. Cōtra. ponat̄ q̄. d. ſit mediū vnifor difforme equali latitudine qua. b. ſit tamē ſubduple q̄ntitatis ad. b. a cuius extremo remiſſiori creſcat. c. po a nō g. Cōſilr dō ſicut creſcet. a. ita q̄. c. ⁊. a. ꝯti ſint eq̄lis po: ⁊ ſeq̄t̄ q̄. a. velocꝰ icipit moueri in. b. q̄ȝ. c. in d. q2 alr. a. incipet eē ita ꝓpinquū extre remiſſiori. b. ſicut c. extr remiſſiori. d. vel ꝓpinquiꝰ: ⁊ ſi ſic incipet mouere cū reſi miori q̄ȝ. c. ⁊ cū po eq̄li: ḡ velocꝰ necio icipit. a. moueri q̄ȝ. c. añs pȝ per h̄ q̄ cuicūq3 pūcto. b. corrñdet reſi minor q̄ȝ pūcto eq̄lr diſtāti ab extre remiſſiori. d. ſeq̄t̄ ḡ q̄. a. velocꝰ icipit moueri q̄ȝ. c. ⁊ a nō g incipit vtrūq3 moueri: ḡ velocꝰ icipit. a. intēdere mo ſuū q̄ȝ. c. ſuū: ſed nō in duplo velocꝰ icipit. a. intēdere mo ſuū q̄ȝ. c. ſuum: n plus q̄ȝ in du velocꝰ icipit intēdere. a. motū ſuū q̄ȝ. c. ſuū: q2 ſi in du: ḡ in du velocꝰ icipit moueri. a. in. b. q̄ȝ. c. in. d. ⁊ q̄lȝ g illiꝰ latide reſi ꝑ in du plus diſtabit ab extre remiſſiori. b. q̄ȝ ab extre remiſſiori. d. exquo. b. eſt du ad. d. ḡ cū eq̄li reſi incipit. a. moueri in. b. ſicut. c. in. d. ⁊ ꝑ ꝯñs nō velocꝰ icipit a. mouere q̄ȝ. c. ꝯñs flȝ. Si ēt plus q̄ȝ in du velocꝰ icipiat a. intēdere motū ſuū q̄ȝ. c. ſuū: ḡ plus q̄ȝ in du velocꝰ inciperet moueri ⁊ per ꝯñs cū reſi maiori icipit. a. moueri q̄ȝ. c. ḡ tardius. ꝯñs flȝ. Seq̄t̄ ḡ q̄ tardiꝰ q̄ȝ in du velocꝰ ipſo. c. incipit. a. intēdere motū ſuū. Det̄ ḡ g quo. a. icipit intēdere motū ſuū ⁊ det̄ g duplus ad g quo. c. icipit motū ſuū intēdere: ⁊ ſit. f. ppor inter illuȝ g du ⁊ g quo. a. icipit intendere mo ſuū. Et arguit̄ ſic. Si in. b. me icipet. a. vel vnuȝ aliud mobile intēdere mo ſuū a nō g in du velocꝰ q̄ȝ. c. icipit in. d. idē icipet moueri cū reſi eq̄li ſicut. c. q2 tūc in duplo velocꝰ icipet moueri in. b. q̄ȝ. c. in. d. Sȝ in. f. ꝓportione tardiꝰ icipit. a. mouere q̄ȝ tūc moueret̄ ipm vel aliud mobile ſic intēdens motū ſuū: q2 in. f. ppor icipit. a. tardius intēdere motū ſuū q̄ȝ tūc: ḡ in. f. ppor icipit reſi. a. eē minor q̄ȝ tūc eēt: ⁊ tūc incipet eius reſi eē eq̄lis reſiſtētie. c. ḡ nūc in. f. ppor icipit reſi. a. eē minor reſi. c. ⁊ ſicut icipit eſſe. f. ppor reſi. c. ad reſiſtētiā. a. ⁊ ifinite modica incipit eſſe ppor. c. ad ſuā reſi: ḡ cū ꝓportio. c. ad reſi. a. cōponat̄ ex ppor ſue po ad reſi ſuā ꝓpriā ⁊ ex ppor ſue reſiſtētie ad reſiſtētiā. a. pȝ q̄ infite maior incipit eē ppor c. ad reſiſtētiā. a. q̄ȝ ad ſuā reſi ꝓpriā. vel ſic infinite modica ꝑciſe icipit eē ppor. c. ad ſuā reſiſtētiā: exquo ifinite tarde incipit mouere: ⁊ reſiſtētie. c. ad reſiſtētiā. a. icipit eē ꝓportio. f. ergo ifinite maior icipit eē ꝓportio reſiſtētie. c. ad reſiſtentiā. a. q̄ȝ. c. ad reſi ſuā ꝓpriā: ⁊ maior ſemꝑ erit ppor. c. ad reſi. a. q̄ȝ reſi. c. ad reſi. a. q2. c. ſemꝑ eſt maior q̄ȝ ſua reſi: ḡ infinite maior icipit eē ppor ad reſiȝ. a. q̄ȝ ad reſi ſuā ꝓpriā: ⁊ tanta ꝑciſe erit ꝯti ppor. c. po ad reſiſtentiā. a. ſicut erit ppor. a. po ad eandē: exquo ille po ſemꝑ erunt eq̄les: ergo infinite maior incipit eſſe ppor. a. ad ſuā reſiſtentiā q̄ȝ. c. ad ſuā. ⁊ per ꝯñs infinite velocꝰ incipit. a. mouere q̄ȝ. c. ⁊ per ꝯñs ifinite velocꝰ icipit. a. intendere motū ſuū q̄ȝ. c. ſuū: ⁊. c. aliq̄lr velociter: ḡ ifinite velociter icipit. a. intēdere motū ſuū: igit̄ nō ſoluȝ finite velociter. Añs pȝ: q2 ſic argutū eſt in ꝯne 12: quelȝ talis po q̄ ſic intēdet̄ a nō gradu: cuiꝰ crementū vnifor intendet̄ tardius ⁊ tardius ꝯtinue intēdet motū ſuū qḋ nō eſſet niſi infinite velociter vel certe velociter incipet motꝰ eius intendi. ſeq̄t̄ ḡ q̄ nō pōt poni q̄ finite velociter vel ifinite velociter incipit intēdere motū ſuū: ḡ infinite tarde icipit intēdere motū ſuū: ḡ nō ꝯtinue tardiꝰ ⁊ tardius itēdet: ḡ ꝯclo eſt falſa. ¶ Pro iſtis ꝯcedenda eſt ꝯclo: ⁊ negat̄ q̄ ifinite tarde incipit. a. intēdere motū vel infi velociter: q2 ſi infinite tarde incipet motꝰ. a. intēdi ⁊ cre po. a. certe velociter cōtinue intendet̄: q2 vnifor: ḡ infinite velocꝰ incipet cre po. a. intēdi q̄ȝ motꝰ eius ⁊ a nō gradu incipet motꝰ intēdi ſicut crementū vt argutū eſt: ḡ infinite magna incipet eſſe ꝓportio cremēti potētie. a. ad motū eiuſdeȝ: ⁊ ſoluȝ finita cōtinue erit ꝓportio motꝰ ad acq̄ſitionē ſue reſiſtētie: ſiue iſta ſit ꝓportio eq̄litatis ſiue maioris ineq̄litatis ſiue minoris: ḡ infi magna incipit eſſe ꝓportio cremēti po. a. ad crementū ſue reſiſtētie: ⁊ a nō gradu incipiūt hꝫ potētia ⁊ reſiſtētia creſcere: ḡ infinite magna icipit eē ꝓportio po ad reſiſtentiā: ⁊ per ꝯñs infinite velociter incipet intēdere motū ſuum ⁊ nō infinite tarde. ¶ Ideo pro ſolōne huius (Nota) argumēti eſt notādum q̄ q̄n aliqḋ mouebit̄ ab aliquo inſtanti ꝯtinue remittēdo motū ſuū: vel intēdendo nulla eſt maxima velocitas que imediate poſt hoc tale inſtans mouebit̄: ſed aliq̄s eſt gradus a quo excluſiue incipiet motus intēdi vel remitti qḋ ſic arguit̄. Incipiat. a. mouere remittendo motuȝ ſuū ꝯtinue: ⁊ capiat̄ gradus a quo incipit remittere motū ſuū: ⁊ ponat̄ q̄. b. ꝯtinue ante h̄ remittebat motū ſuū velocꝰ mouēdo q̄ȝ. a. ita q̄ ꝯtinue poſt h̄ eque velociter moueat̄ cū. a. ⁊ ſit nūc inſtās illud in quo. b. incipit mouere eque velociter cū. a. ⁊ arguit̄ ſic. Aliq̄s eſt gradus quo. b. in inſtāti p̄ñti mouet̄: q2 ipoſſe eſt q̄. b. nūc moueat̄: ⁊ tñ q̄ nullus ſit certus gradus quo mouet̄: cū ḡ motꝰ. b. ꝯtinue remittet̄: ſequit̄ q̄ nunq̄ȝ mouebit̄. b. ita velociter ſicut nūc mouet̄: ḡ gradus quo nunc mouet̄. b. nō eſt intēſiſſimꝰ quo imediate poſt hoc mouebit̄. b. n aliq̄s aliꝰ gradus intēſior: eo q̄ motꝰ ſuus ꝯtīue remittet̄: nec remiſſior gradu quo nūc mouet̄. naȝ quicūq3 remiſſior det̄ tpe erit anteq̄ȝ ita remiſſo g moueat̄. b. ḡ nulla eſt maxīa velocitas qua imediate poſt hoc mouebit̄. a. idez ēt eſt arg vbi motꝰ intendat̄: pȝ ḡ notabile. ¶ Conſilr deducit̄ q̄ ſi motus alicuiꝰ incipiat intēdi vel remitti qui ꝯti tardius ⁊ tardius intendet̄ vel remittet̄ vel velocꝰ ⁊ velocꝰ nullus eſt gradus intēſiſſimꝰ quo ime poſt hoc intendet̄ vel remittet̄. ¶ Per hoc ridet̄ arg ⁊ cōcedit̄ q̄. a. icipit finite velociter intēdere motū ſuū: ⁊ cōcedit̄ etiā q̄ nō in du velocius ipſo. c. intēdere. a. incipit motū ſuum: nec plus q̄ȝ in duplo velocꝰ ⁊c̄. in nulla ꝓportione tñ tardiꝰ: q2. a. incipit intēdere motū ſuū excluſiue a g du ad illuȝ g a quo excluſiue incipit. c. intēdere motū ſuum. nec eſt illud incōueniens. vȝ. q̄. a. icipit intēdere motū ſuū velocius q̄ȝ. c. ſuū ⁊ minꝰ q̄ȝ in du velocꝰ: ⁊ tñ in nulla ꝓportiōe minus q̄ȝ in duplo velocius vbi. ſ. nullus eſt g intēſiſſimus quo aliqḋ illoꝝ incipit intēdere motū ſuū. vbi tñ re vtriuſq3 eēt dare maximā velocitatē qua ipm icipit intēdere nō eſt illud poſſe. vbi gr̄a. remittat̄ motꝰ aliq̄s ab octo vſq3 ad q̄tuor vnif excluſiue icipiēdo ab octo: ⁊ remittat̄ altꝰ mo a q̄tuor excluſiue vnif vſq3 ad tria: ⁊ remittat̄ 3ꝰ motꝰ vnif a q̄tuor

exclusiue vsqȝ ad duo: tūc pmꝰ motꝰ ꝯtinue erit duplus ad
3m: qꝛ a gº duplo in duº velociꝰ ꝯtiᵉ remittet: ⁊ scđs motus
ꝯtinue erit intēsioꝛ 3º: eo ꝙ ab eodē gº ꝯtiᵉ remittet: ⁊ 3º in
duº velociꝰ ꝯtiᵉ 2º: ḡ pmꝰ motꝰ nunq̄ȝ erit duplus ad 2m: ⁊
tñ pmꝰ motꝰ incipit eē intēsioꝛ 2º: ⁊ ēt in nulla ꝓpoꝛne inci/
pit pmꝰ motꝰ eē minoꝛ q̄ȝ duplus ad 2m: qꝛ in nulla ꝓpoꝛ/
tiōe incipit pmꝰ motꝰ eē minoꝛ q̄ȝ duplus ad gm vt q̄tuoꝛ
qm gº ꝯtiᵉ erit intēsioꝛ iº 2º motu ḡ ab iº gº icipit remitti: ⁊
sic ēt est de intēsione motꝰ que intēsio remittet. Et tūc ad
argm qñ sic dr: dei gradus quo.c.incipit intēdere: ⁊ gradus
quo.a.incipit qui ad illuȝ nō est duplus: dī ꝙ nullus est gº
quo.c.icipit intēdere motū suū: ita ꝙ iº gº incipiat ⁊ nō in/
tensioꝛ: ⁊ sic dī de.a. Si tñ aliqui eēnt tales gradus bñ ꝓ/
cederet argm ꝓbādo ꝙ inter iº ⁊ ēt inter gm duᵐ ad gm quo
incipiet intēdere motū suū ⁊ gm quo.a.inciperet intēdere eēt
aliqua ꝓpoꝛtio certa: sed cū nō sint tales gº: ideo nō ꝓce/
dit argm. ¶ Cōtra 13m ꝯnēȝ sic arᵗ. Sit.a.poª que in.b.me/
dio vnifoꝛᵗ mouet: ⁊ sit.c.poª minoꝛ q̄ȝ.a.applicata ad eū/
deȝ punctū cui applicat.a. ⁊ intēdat ꝯsilr cū.a. ⁊ argᵗ sic.c.
cōtinue intēdet motū suū ⁊ finite distat a gº quo.a. ꝯtinue
mouebit vniᵗ: ḡ aliqñ poterit motꝰ.c.intēdi ad gm quo mo
uebit.a.qꝛ nō est aliqs gº intēsiōis ita remissius gn mediā/
te iº gº posset tota latitudo inter motū.c. ⁊ motū.a.acqri in
certo tpe finito. det ḡ punctꝰ ad queȝ.c. mouebit ita veloᵗ
sicut.a. ꝯtinue mouebit ⁊ sit.e. ⁊ sit.d.instans in quo.c. mo/
uebit equeueᵗ cū.a. ⁊ labat tps vsqȝ ad.d.instās: ita ꝙ nūc
sit.d.instās: tūc arᵗ ꝙ.c.nō ꝯtinue añ hoc intēdebat motū:
qꝛ.a.nūc mouebit equeueᵗ sicut ideȝ.a.mouebat ad.e.pū/
ctū: qꝛ motꝰ eius ꝯtiᵉ māsit vniformis. ḡ qñ.a.fuit ad.e.pū/
ctū mouebat equeueᵗ sicut nūc mouet.c.ad ideȝ punctū: ⁊
per ꝯñs tūc fuit.a.tante poᵉ sicut nūc est.c. diminuat ḡ.a.ad
equalitatē.c. ⁊ ponat ad.e.punctū ⁊ diminuant.a.c. nūc fa
cta eq̄lia equeᵗ oīo ⁊ vniᵗ sicut prius augmētabant anteq̄ȝ
ad.e.punctū deuenirent: ⁊ seqᵗ ꝙ vtrūqȝ mouēdo versus
extremū remissius equeᵗ ꝯtiᵉ mouebit sicut prius mouebat
versus.e.pūctū ⁊.a.prius mouebat vniᵗ: ḡ nūc eꝫ mouebit
a.vniᵗ ⁊.c.equeᵗ mouebit cū.a. cū sp erit eq̄lis poᵉ sicut.a.
exquo nūc sint eq̄les ⁊ ꝯsilr diminuent: ḡ.c. ꝯtinue moue/
bit vniᵗ: ⁊ nūc ꝯsilr mouebit sicut in via augmētatiōis mo
uebat. ḡ in via augmētationis mouebat vniᵗ ⁊ nō intēde/
bat motū suū. ¶ Pro iº ꝯcedit ꝯclō ⁊ admittat casus. Et
qñ ꝯcludit ꝙ motꝰ.c.pōt intēdi ad eq̄litatē motꝰ.a.negat
ꝯña: ⁊ lȝ ꝯtinue intēdet motū suum ⁊ cū gº finito quātūcuqȝ
remisso posset.c.intēdi ad motū.a.nˢ.n.est gradus cui pos/
set tota intēsio motꝰ eius correspondere: posito ꝙ per tps infim
durarct hꝰ intēsio: aut dato ꝙ mem esset infim sicut in exēº
vbi poª mouens in meº vnifoꝛᵗ difformi terminato ad gm
suū ꝯtiᵉ mouebit in illo medio ⁊ nunq̄ȝ ad extremū deue/
niet: ⁊ tñ mediāte oī gº finito posset ad extrem in tpe finito
deuenire: exquo distātia soluȝ est finita. Sed dato tēpore
aliquo in quo motꝰ sitꝰ alicui gradui correspōdebit: in illo tpe
mediāte illo gº nō posset deuenire ad extremū: ⁊ sic imagi
nandū est de intēsione illꝰ motꝰ.c.que ꝯtinue erit tardioꝛ
⁊ tardioꝛ: ⁊ sic nō ꝓcedit argm de motu ⁊ eius intēsione.
Qualr sit pñt acqri: seqᵗ ingrere ⁊ ꝓ ponunt regule ⁊c̄.

¶ Tractatus 16ꝰ de inductione gradus summi.

PRo materia inductionis gº sūmi pri
mitꝰ est notādum ꝙ in/
ductio gradus summi nō est nisi ꝓgressio gra
dus illꝰ seu partialis acq̄sitio ḡdus illꝰ quo
ad partes subiecti: sicut signato vno subiecto
vnifoꝛᵗ difformi: ⁊ sit eq̄lis alteratio vndiqȝ: tunc ad pun/
ctuȝ minꝰ distantē a summo citiꝰ deueniet gradus sūmus:
qꝛ est vndiqȝ equalis acq̄sitio qualitatis: ⁊ sic gradus sum/
mus citius erit ad vnū punctū istꝰ subti: ⁊ deinde ad aliuȝ
ac si esset punctꝰ mouēs supra ideȝ subm: illud subiectum
pertrāsiens partialr: ⁊ sic tª ꝓgressio siue vera siue imagi/
nata: vel ista ꝑticularis acq̄sitio ḡdus summi quo ad ꝑtes
subiecti dī inductio gradus summi. ¶ Scđo notādum ꝙ
velocitas inductionis gradus summi attēdit penes subm
per qđ inducit .i.penes q̄ntitatē illꝰ subiecti sic intelligēdo
ꝙ si duo subta inequalia deducta rarefactiōe ⁊ ꝯdēsatiōe
⁊ in eodeȝ tpe fiāt summa: sicut vnū subm est alio maius:
ita inductio gradus summi in maius erit velocioꝛ indu/
ctione gradus summi in minꝰ: vt si bipedale fiat sic ꝓbabi/
liter summū qñ aliud qđ est solū pedale sit ꝓbabilr sūmū:
in duplo erit velocioꝛ iductio gradus summi in bipedale
q̄ȝ in pedale. ¶ Ista descriptiōe iductiōis gradus summi — pª regla
posita quedaȝ regule sunt notāde. Prima si subm vnifoꝛᵗ
difforme terminatū ad summū alteret vno gº vniformi ꝑ
totum / isto subo aliūde nō moto nec facta mutatiōe illius
alterationis per illud subȝ gradus summꝰ vnifoꝛᵗ iducet.
¶ Si enī subm' sit vnifoꝛᵗ diffoꝛᵉ terminatū ad summū
sicut puncta minꝰ distant ab extremo intēsioꝛi: ita qualita/
tes per ista puncta ꝑ minꝰ distant a summo ⁊ equalis erit
alteratio ꝯtinue ad oīa puncta: ḡ sicut puncta sunt propin/
quioꝛa extremo intensioꝛi: ita ad ista citiꝰ deueniet gradus
summꝰ: ⁊ per ꝯñs gradus summꝰ inducet vnifoꝛᵗ. motꝰ.n.
localis est vniformis qñ sicut puncta sunt ꝓpinquioꝛa ter
mino a quo mobile icipit moueri: ita ad illa illud mobile
citius veniet: ita est de tali gradu inducēdo: ⁊ loquoꝛ semꝑ
de alteratione que est acq̄sitio istius q̄litatis qua subm est
vnifoꝛᵗ difforme terminatū ad summū. ¶ Si sit aliquod — 2º regla
subm vnifoꝛᵗ difforme alteratū per totuȝ vno gradu vni/
formi ipso subto aliūde nō moto ipȝ ꝯtinue manebit vniᵗ
difforme quousqȝ aliq̄ pars eiꝰ fuerit summa: qꝛ si sit vni/
formiter difforme ⁊ alteret vno gº vnifoꝛᵗ: ad oīa puncta
est equalis q̄litatis acq̄sitio: ḡ oīa puncta eque distabūt sicut
in pñº. ḡ sicut in pñº ipȝ est vnifoꝛᵗ difforme: ita in fine erit
vnifoꝛᵗ difforme. ¶ Ponit enī hec descriptio vniformi/ — Quid vni formit dif forme.
ter difformis. vȝ. vnifoꝛᵗ difforme est qñ cuiuslȝ ꝑtis date
gradus mediꝰ vel existēs ad punctū mediuȝ eq̄lr excedit
ab extremo intēsioꝛi eiusdeȝ ꝑtis sicut ipse istꝰ ꝑtis exce/
dit extremū remissius: ⁊ pȝ regula. ¶ Si aliqđ sit vnifoꝛᵗ — 3º regla
difforme alteratū vno gradu vniformi totū ꝯtinue mane/
bit vnifoꝛᵗ difforme eq̄li latitudine extēsiue sicut in pñº hȝ.
¶ Et voco illas latines equales extēsiue: quaȝ extreª intē/ — Que sunt latitudies extensiue equales.
sioꝛa equalr excedunt extrema remissioꝛa earūdem sicut
sunt latines ab octo vsqȝ ad sex: ⁊ a q̄tuoꝛ vsqȝ ad duo. Ꝥ pȝ
exquo semꝑ alterant vno gº vniformi: ad oīa pūcta eq̄lis
qualitas acqret: ḡ qualitates ad oīa pūcta eq̄lr se excedēt
sicut in pñº: ḡ erit vniᵗ difforme eq̄li latitudine extensiue.
¶ Si vnifoꝛᵗ difforme alteret latitudie vnifoꝛᵗ difformi/ — 4º regª
totū cōtinue manebit vniformiter difforme quousqȝ aliq̄
pars fuerit summa seu sub non gº vel totū fiet vniforme.
¶ Ad qđ ꝓbādū sic arᵗ. Primo supponēdo ꝙ si sint tria — Regla ꝓ portionū.
cōtinue ꝓpoꝛtiōabilia ꝓpoꝛtiōe arithmetica: ⁊ sint aº tria
ꝯsilr ꝓpoꝛtiōabilia ꝓpoꝛne geometrica sicut pma tria: illa
etiā sunt ꝯtiᵉ ꝓpoꝛtionabilia ꝓpoꝛne arithmetica: qꝛ si nō — 40.20.10. A.B.C
sint.a.b.c.tres termini pmi ꝯtinue ꝓpoꝛles ꝓpoꝛne arithme — 8. 6. 4. D.E.F
tica: ita ꝙ.a.equalr excedat.b. sicut.b.excedit.c. ⁊ sint.d.e.
f.cōsilr ꝓpoꝛles geometrice sicut sunt.a.b.c.geometrice. arᵗ
tūc sic. Uel.d.est equale vel ineq̄le.a. Si equale ⁊.d. ꝯsilr
est ꝓpoꝛlis.e. ⁊.f.sicut.a.b.c.ergo seqᵗ ꝙ.b.c. ⁊.e.f. inter se sūt
equalia: ⁊ per ꝯñs excessus.a.sup.b.est equalis excessui.d.
supra.e. ⁊ excessus.b.supra.c.est equalis excessui.e.supra.f.
Sicut ḡ.a.b.c.sunt ꝯtinue ꝓpoꝛtionabilia arithmetice: ita
d.e.f.sunt ꝯtinue ꝓpoꝛtionabilia arithmetice. Si.a.sit ma — Regla ꝓ portionū.
ius.d.ḡ sicut est maiꝰ.d.ita per plus excedit.b.q̄ȝ.d.e. ꝯña
pȝ per id si aliqui termini inequales se hñt ineq̄li ꝓpoꝛtiōe
geometrica

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geometrica ad aliq̄s terminos ſicut vnum eſt alio maius: ita per plus excedit terminum ad quē ꝓportionat̄: vt vl'r cōſtat. Sit ḡ.a.maius.d.in.g.ꝓpor^c: ⁊ ſeq̄t̄ q̄ .b.eſt maius e.in eadē ꝓportione: ſicut eiʒ.a.ſe hʒ ad.b.ita.d.ſe hʒ ad.e: ḡ ꝑmutatim ſicut.a.ſe hʒ ad.d.ita.b.ad.e.ſed per poſitū.a.ſe hʒ ad.d.in.g.ꝓportione.ḡ.b.ſe hʒ ad.e.in.g.ꝓportiōe.⁊ ſil'r eſt ꝓportio geometrica.b.ad.c.ſicut eſt.c.ad.f.ḡ erit g.ꝓportio exceſſus.b.ſupra.c.ad exceſſuʒ.c.ſupra.f.tenet ꝯña per ꝓdictā nōbi^{les}. Et tūc ſic arg^r. Exceſſus.a.ſupra.b.eſt maior exceſſu.d.ſupra.e.in.g.ꝓpor^c: ⁊ ē exceſſus.e.ſupra.f.eſt minor in.g.ꝓpor^c exceſſu.b.ſupra.c.ḡ exceſſus a.ſupra.b.ſe hʒ in.g.ꝓpor^c ad exceſſum.c.ſupra.f.ꝯña tenet per h̄ q̄ exceſſus.a.ſupra.b.exceſſui.b.ſupra.c.adeq̄tur: ḡ exceſſus.a.ſupra.b.ſe hʒ in.g.ꝓpor^c ad exceſſuʒ.d.ſupra.c.⁊ ad exceſſuʒ.e.ſupra.f. Sʒ ſi aliqđ ſe habeat ineq̄li ꝓpor^c ad aliq̄ duo: iſta duo īter ſe ſunt eq̄lia vt per cōem animi ꝯceptionez ſatis pʒ.ḡ ſeq̄t̄ q̄ exceſſus.d.ſupra.e.eſt eq̄lis exceſſui.e.ſupra.f.ḡ.d.e.f.ꝯtinue ſunt ꝓpor^{les} ꝓpor^{ne} arithmetica.pʒ ḡ ſuppoſitio. Si autē dicat̄ q̄.a.ſit minus d.ideʒ fiet arg^m ꝯ̄rio arguēdo q̄ exceſſus.d.ſupra.e.f.erit maior exceſſu.a.ſupra.b.c.in iſta ꝓportiōe in qua.a.eſt minus.d.

Corre^m. ¶ Ex iſto ḡ pʒ q̄ ſi aliqđ intēderet̄ latitudine vniformiter difformi lati^{ne} acq̄ſita per illud erit vniformiter diffor^m: q̄ ſi nō ſignet̄ aliq̄ pars iſti^s: ⁊ capiant̄ tria pūcta iſti^s ptis.ſ.extrema ⁊ mediū.⁊ arguit̄ ſic. Illa alteratio eſt vniformiter diffor^m: ḡ alterationes ad iſta tria pūcta ſunt ꝯtinue ꝓpor^{les} arithmetice: ⁊ ſic̄ iſte alterat̄ōes ſunt ꝓportionales geometrice: ita q̄litates ad illa pūcta acq̄ſite ſunt geometrice ꝓpor^{les}: q̄ tp̄s eſt idē: ḡ iſte q̄litates ſunt cōtinue ꝓportionales arithmetice.ꝯña iuxta ſuppōnez poſitā ſatis pʒ.et ſic de extremis ⁊ medijs cuiuſlibet ptis eſt arguēduʒ: ḡ cuiuſcūq̄ ptis date q̄litas ad punctū ei^s mediū acq̄ſita excedit extremū remiſſius iſtius ptis per q̄ntū excedit̄ a qualitate acq̄ſita extremo eius intēſiori: ⁊ per ꝯñs iuxta deſcriptionē vniformiter difformis tota q̄litas acq̄ſita manebit vniformiter difformis: et q̄litas ꝓhabita eſt vniformiter difformis: ḡ tota qualitas cōpoſita ex his eſt vniformiter difformis vel vnifor^m.ꝯña ꝓbat̄. Et p̄ ad ei^s ꝓbōnē ſupponat̄ q̄ omne cōpo^m ex duob^s ineq̄lib^s eſt duplū ad mediū inter illa. Hec ſuppoſitio ꝓbat̄ per 2^{am} ſuppōnez pro ꝯne 3^o^a de motu locali: ex qua ſeq̄t̄ q̄ omne cōpoſitū ex duob^s ineq̄lib^s eſt plus q̄ dupluʒ ad omne mi^n^s medio inter iſta ⁊ minus q̄ duplū ad omne maius medio inter iſta. Et ſi aliqđ cōpo^m ex duob^s ſit duplū ad aliqđ 3^m: id 3^m vel eſt eq̄le vtriq̄ vel mediū īter iſta. Si n. iſta duo ſunt eq̄lia ſolū ꝯſtituūt vnū duplū ad equale vtriq̄ iſtoꝝ: vt ſatis pʒ. Et ſi ſint ineq̄lia ſolū ꝯſtituūt duplū ad mediū īter i^a: vt ꝓbatuʒ eſt. Ex his n. facil'r ꝓbat̄ q̄ omne cōpo^m ex duab^s latitudinib^s vniformiter difformib^s vel eſt vniforme vel vniformiter difforme: q̄ ſi nō ſint.a.b.c.vna latitudo: ita q̄.a.ſit extremū īteſius ⁊.b.gradus medius ⁊.c.extre^m remiſſius: ⁊ ſint.d.e.f.alia latitudo cuius extre^m intēſius ſit.d.⁊.e.gradus medi^s ⁊.f.extre^m remiſſius: ⁊ coextēdat̄.d.e.f.latitudo cum.a.b.c.latitudine.arguit̄ ſic.b.eſt mediū īter.a.⁊.c.ḡ cōpo^m ex.a.c.eſt duplū ad.b.ꝯña tenet iuxta ſuppōnē: ⁊ ſil'r.e.eſt mediuʒ īter.d.f.ḡ cōpo^m ex.d.f.eſt duplū ad.e.extēdat̄ ḡ.d.cum.a.⁊.e.cuʒ.b.⁊.f.cuʒ.c.⁊ ſequit̄ ex q̄ cōpo^m ex.a.⁊.c.eſt duplū ad.b.⁊ cōpo^m ex.d.⁊.f.eſt duplū ad.e.q̄ cōpo^m ex.a.c.⁊.d.f.eſt dupluʒ ad cōpo^m ex.b.⁊.e.ꝯña tenet per h̄ q̄lis eſt ꝓportio aliquoꝝ diſtinctoꝝ talis eſt ꝓportio coꝝ ꝯiūctoꝝ.ḡ ſeq̄t̄ q̄ vel cōpo^m ex d.a.eſt equale cōpoſito ex.c.⁊.f.vel cōpoſitū ex.b.⁊.e.erit mediū īter iſta duo cōpoſita.ſi p̄ cōpo^m ex illis erit vniforme.ſi 2° erit vniformiter difforme: vt notū eſt. Et ſic de oī pte latitudinis eſt arguēduʒ ſicut nunc arguitū eſt de tota latitudine.ꝯña ꝓcedēs iuxta ſuppōnē ſatis pʒ.cum ḡ cōpoſitū ex.d.⁊.a.ſit maius q̄ cōpo^m ex.c.⁊.f.ſequit̄ q̄ cōpoſituʒ ex.b.e.erit mediū inter iſta: ⁊ ſic i^a latitudo erit vniformiter difformis. Idē arg^m fiet cum extremū remiſſius ꝯiungat̄ extremo remiſſiori ſive intēſiori q̄ tota qualitas cōpoſita ex his erit vniformiter difformis vl' vniformis.

Sed ſi extremū intēſius vni^s latitudinis ꝯiūgat̄ extremo intēſiori alterius lati^{nis}: ⁊ extre^m remiſſius extremo remiſſiori: tota latitudo fiet vniformiter difformis: q̄ tūc cōpoſita ex extremis erunt ineq̄lia: ⁊ ſi extre^m remiſſius vnius latitudinis extremo intēſiori alterius lati^{nis} ꝯiungat̄: ⁊ extremū intēſius extremo remiſſiori in caſu fiet totū vniforme: ⁊ in caſu vniformiter difforme. p̄mu̅ʒ pʒ: ſi ex intēſius vnius latitudinis equal'r excedit extre^m ſuū remiſſius per quātū extre^m intēſius alterius lati^{nis} excedit ſuū extre^m remiſſius ſicut ſi latitudo a 4to vſq̄ ad duo latitudini a 4to vſq̄ ad duo iungeret̄ 4^m v'ſus duo: ⁊ tūc fieret vniforme vt ſex: vel ſi eidē latitudini adderet̄ latitudo a duob^s vſq̄ ad non g^m modo dicto tota latitudo fieret vniformis vt 4^{or}: fieret etiā vniformiter difformis ſi extrema latitudis addite magis vel minus ſe inuicē excederēt q̄ extrema latitudinis ꝓhabite. Ex^m de latitudine terminata ad duos gradus: vt ſi latitudini a 4to vſq̄ ad duo: iūgeret̄ latitudo ab octo vſq̄ ad 4^{or} extremo intēſiori extenſo v'ſus extre^m remiſſius: tūc erit vnū extremū cōpo^m ex 4^{or} ⁊ 4^{or} que ꝯſtituunt octo: ⁊ aliud extre^m ex duob^s ⁊ octo erit ḡ difforme. Ex^m de latitudine terminata ad nō gradū vt ſi ꝓdicte latitudini a duobus vſq̄ ad 4^{or} iūgat̄ latitudo a 4^{or} vſq̄ ad nō gradū modo ꝓnotato: tūc vnum extremū erit vt ſex: ⁊ aliud vt 4^{or}.pʒ ḡ q̄ ſi latitudo vniformiter difformis terminata ad duos gradus addat̄ alij latitudini ad duos gradus terminate q̄ tota latitudo cōpoſita ex his erit vniformiter difformis: vel remanebit qualitas vniformis. Sil'e eſt de latitudinib^s ad nō gradū terminatis.ſi eiʒ addātur adinuicē iſta extrema intēſiora ꝯſtituent g^m duplū ad ſuos gradus medios: q̄ ꝯſilis eſt ꝓportio ipſoꝝ extremoꝝ adinuicē diuiſoꝝ ad ſua media diuiſim accepta ſicut ipoꝝ adinuicem cōpoſitoꝝ ad ſua media ſimul iūcta. Si ḡ extrema intēſiora ſimul iūgant̄, tota latitudo erit vniformiter difformis ad nō g^m terminata. de quacūq̄ enim pte iſtius lati^{nis} eſt ſil'r arguēduʒ ſicut ꝓ̇us. Et ſi extre^m intēſius vnius addat̄ extremo remiſſiori alterius, tota erit vniformiter difformis vel vniformis: q̄ illi gradus extremales ꝯſtituūt g^m dupluʒ ad gradus medios ſimul iūctos: ḡ cōpoſitū ex illis medijs erit tunc equale vtriq̄ extremo: vel vnū extre^m eſt alio intēſius: ⁊ illud cōpo^m erit mediū īter illa extrema: vt ꝓ̇us argutū eſt ex ſuppōne. Si p̄ modo totū erit vniforme per ꝓ̇argūta. Si 2° modo totū erit vniformiter difforme.pʒ ḡ id tanq̄ verū.

¶ Cōtra qđ arguitur ſic. Sit.a.vniformiter difforme ⁊ alteret̄ lati^{ne} vniformiter difformi: ⁊ ſit extre^m intēſius alterationis v'ſus extremuʒ intēſius ſubiti: tūc ſic.a.eſt vniformiter difforme: ḡ tāta eſt latitudo in vna medietate eius ſubi̅ ſic̄ in alia: ⁊ velocius ꝯtinue intēdet̄ medietas intenſior q̄ medietas remiſſior: ⁊ velocitas alterationis attēdit̄ penes latitudinē: ḡ maior latitudo acq̄ret̄ medietati intēſiori q̄ medietati remiſſiori: ⁊ ſi equalib^s ineq̄lia addant̄, que reſultabūt inequalia erūt ⁊c̄.ḡ maior ꝯtinue erit latitudo in medietate intēſiori q̄ in medietate remiſſiori: ⁊ per ꝯñs nō manebit vniformiter difformis. ꝯtra 4^m reg^m.

¶ 2° ſic.ſi ad oēm pūctuʒ.a.acq̄retur tāta latitudo ſicut ad extre^m intēſius acq̄reret̄, totū ꝯtinue maneret vniformiter difforme: q̄ tūc qualitates ad oīa pūcta equal'r ſe extēderēt ſicut in p̄n^o.ſed nūc ad oēm punctū intrinſecū erit minor latitudo acq̄ſita q̄ nūc erit ad extre^m intēſius: q̄ nō tāta latitudo ſicut tūc: ḡ nūc nō erit

vniformiter difformis. ¶ 3° sic. Si foret vniformiter dif/
formiter alteratum per latitudinē vnifor' difformē ad nō
gm terminatā: & nō gradus alterationis fuerit v'sus extrem
remissius subi: tūc gradus medius dz intēdi: & per ɔ̄ns in/
seq extrem intēsius: ergo si extrem remissius equalr insequeret
mediū per intēsionē sicut mediū extrem intēsius: tūc tāta ɔti
nue eēt distātia extremi intēsioris a medio sicut medij ab
extremo remissiori sicut de trib° mobilib° localr esset ar/
guēdum: sed iam inter extrem remissius & mediū erit maior
distātia q̄ inter ista eēt si extrem remissius intēderet: vt satis
pz. ergo nūc maior erit latitudo in medietate remissiori q̄ in
medietate intēsiori: & per ɔ̄ns nūc nō erit vnifor' diffor'. Uel
pōt argm gnālr formari. si n. alteraret latitudine alterationis &
extrem intēsius sit v'sus extrem intēsius &c. medius g° velo/
cius insequeret extrem intēsius q̄ extremū remissius insequet
medium: ergo maior ɔtinue erit distātia gradus medij ab ex/
tremo remissiori q̄ extremi intēsioris a medio. Si enim
equeuelo' insequeret distātia eēt eq̄lis vt prius &c. seqt ergo regulam
Solo nō esse verā. ¶ Pro solōne istorum argtorum pmitus est nōm
q̄ hec ɔ̄ntia nō valet: maior latitudo acqret medietati intē
siori q̄ medietati remissiori: & nūc est tāta in medietate intē
siori sicut in medietate remissiori: ergo in fine erit maior latitu/
do in medietate intēsiori q̄ in medietate remissiori. & hoc lo/
quēdo de maioritate latitudinis extēsiue vel q̄ntitatiue: quāti/
cūq3 eni3 parua latitudo q̄ntitatiue vel extēsiue pōt eē quā/
tūcūq3 magna volueris intēsiue. nā maior v'ificat solū pro
maioritate latitudinis intēsiue & nō extēsiue: & minor solū v'ifi/
cat pro maioritate latitudinis extēsiue: & sic diuersimode sup/
ponunt equalitas & ineq̄litas in maiori & in minori. & ideo
argm nō valet: imo staret q̄ in vna medietate eēt semp dep/
ditio latitudinis & in alia acqsitio: sic tn̄ q̄ ɔtinue maneret
vnifor' difformis: sicut si medietas intēsior vnifor' diffor
mis alteraret latitudine alterationis ad nō gm terminata
v'sus mediū punctū toti° corpis & intēderet: & medietas re
missior alteraret ɔsili latitudine: ita q̄ nō gradus altera/
tionis eēt ad pūctum mediū toti° & remitteret: id manebit
vnifor' difforme. nā ad pūctum mediū semp manebit idē
gradus: eo q̄ ibi terminat alteratio ad nō gm & equeuelo'
recedet extrem intēsius per intēsionem ab i° gradu medio sicut
extrem remissius recedet ab eodē g° per remissionē: & per
ɔ̄ns vtraq3 medietas ɔtinue erit vnifor' difformis equali
latitudine: & gradus terminās medietatem remissiorē fm ex/
tremum intēsius terminat medietatem intēsiorē fm extrem re/
missius: ergo totum cōtinue erit vnifor' difforme: & sic nō pce/
dit argm: q2 in casu maioratio latitudinis intēsiue causat mi/
norationē latitudinis extensiue & ecōtra. ¶ Pro 2° negat
ɔ̄ntia qn̄ ɔcludit: tūc esset vnifor' difforme: ergo nunc nō est
vnifor' difformis. bñ tn̄ seqt q̄ nūc nō est vnifor' diffor/
me eq̄li latitudine qua tūc eēt sed maiori: q2 tūc extrem re
missius per minus distaret ab extremo intēsiori q̄ nūc di
stabit. ¶ Pro 3° negat hec ɔ̄ntia: si extrem remissius eque/
velociter insequeret mediū sicut mediū extrem intēsius: tūc fo/
ret tāta distātia inter mediū & extrem intēsius sicut inter extre
mū remissius & mediū. nec valet hō argm nisi inter medium &
extrem intēsius maneret ɔtinue pcise tāta distātia sicut in
pn° est inter ista. B sic pbat. Si extrem remissius equeuelo'
insequeret mediū sicut mediū extrem intēsius: tūc inter extrem
remissius & medium ɔtinue eēt tāta distātia sicut in pn° est
inter illa: & inter medium & extrem intēsius ɔtinue maiorabit
distātia: eo q̄ extrem intēsius velocius intēdet q̄ mediū: & et
per ɔ̄ns si extrem remissius equalr insequet mediū sicut me
dium extrem intēsius: tūc inter extrem remissius & mediū fo/
ret minor distātia q̄ inter medium & extrem intēsius. & ideo
5ª reg° argm nō pcedit. ¶ Si sint duo inequalia q̄ntitatiue eodem
gradu per totū alterata & ad summum terminata & ppor' sic

est vnū alio minus: ita minorē latitudinem extensiue habeat eq̄ue/
lociter inducet gradus summus in illa duo, illis subiectis aliū/
de nō motis. Hoc n. sic pz. sit enim .a. maius subm & .b. minus.
& ponat sic .b. est minus .a. ita minori latitudine sit vnifor' dif/
forme terminatū ad summum: tūc ex q̄ .a. est maius .b. aliqua
est pars .a. terminata ad summum eq̄lis .b. que pars sit .c. & ar
guit sic .a. est vnifor' diffor': ergo ppor' sic .c. est minus .a. ita
minorē latitudinem hz q̄ .a. terminatā ad summum: & ppor' sic .b.
est minus .a. ita hz minorē latitudinem q̄ .a. terminatā ad summū:
ergo .b.c. sunt eq̄lia eq̄li latitudine vnifor' difformi terminata ad
summum & eodē g° alterabit .b. sic .c. ergo eq̄ueelociter pcise indu
cet gradus summus in .b. sic in .c. & eq̄ueelociter in .c. sic in .a.
q2 in .a. ɔtinue vniformiter inducet g° summus per primam regulā:
ergo eq̄ueelociter inducet g° summus in .b. sic in .a. pz ergo ɔclo siue
regula &c. ¶ Si duo ineq̄lia ad summum terminata eodē g° 6ª reg°
alterent: & maior sit pportio q̄ntitatis vni° ad q̄ntitatē alte/
rius q̄ est latitudinis maioris ad latitudinem minoris, tardi° inducet
g° summus in minus q̄ in maius. ¶ Si n. eēt tanta pportio
q̄ntitatis ad q̄ntitatē pcise sicut est latitudinis ad latitudinem eq̄ueloci
ter induceret g° summus in minus sic in maius vt per pri/
mā satis liquet: sz iam tardius inducit g° summus in minus
q̄ tūc: eo q̄ qlibet pūct° isti° nūc per plus distat a summo q̄
tūc distaret vt notū est. ergo nūc tardius inducet g° summus in
minus q̄ in maius: qd fuit pbādum. ¶ Si tn̄ sit minor p/ 7ª reg°
portio q̄ntitatis ad q̄ntitatē q̄ latitudinis ad latitudinem veloci° indu/
cet g° summus in minus q̄ in maius. hec vt prima declarat.
¶ Si duo vniformiter diffor' eadem latitudine terminata ad 8ª reg°
summum eodē g° alterent & sint ineq̄lia in q̄ntitate: ppor' sic
vnum illorum est alio maius: ita veloci° inducet g° summus in
maius q̄ in minus: q2 illa & eēt oēs ptes illorum corrñdentes
eq̄ciro fient sume: & p primam in vtrūq3 vniformiter inducet g°
summus: & sic subm est maius: ita inductio g° summi per illud
subm in tpe eq̄li erit velocior iuxta descriptionē inductio
nis gradus ppositā. ¶ Si eq̄lia vniformiter diffor' eadē 9ª reg°
latitudine ad summum terminate gradib° ineq̄lib° alterent sicut
vnū alio veloci° alterat: ita veloci° in ipm veloci° alteratū
inducet gradus summus q̄ in tardius alteratum: sic. n. citius
fiet summum sic alteratio est velocior & sic tps minus est re
inductionis p subta eq̄lia: ita inductio erit velocior sic est
de oī alio motu. ¶ Si sint duo ineq̄lia eadē latitudine vnifor/ 10ª reg°
miter diffor' terminata ad summum alterata gradib° ineq̄/
lib° vniformib°: ita q̄ tāta sit ppor° q̄ntitatis maioris ad q̄nti/
tatē minorē q̄nta alterationis minoris subti ad alteratōem
maioris per illa eq̄ueelociter inducet g° summus. Sit enim .a.
maius & .b. minus &c. & sit .f. ppor° q̄ntitatis .a. ad q̄ntitatem .b. &
et alterationis .b. ad alteratōem .a. tūc p penultimā si .a.b. codē
g° alterarent in .f. ppor° veloci° inducet g° summus in .a. q̄
in .b. sz per primā nc in .f. ppor° tardius induceret gradus
summus in .a. q̄ si alteraret codē g° quo .b. alterabit: ergo nunc
eq̄ueelociter inducet gradus summus in .a. sic in .b. pcise. ergo seqt
ɔclo. ¶ Et si sit maior ppor° q̄ntitatis maioris ad q̄ntitatē mi/ 11ª reg°
noris q̄ alterationis minoris ad alterationē maioris velo/
cius inducet g° summus in maius q̄ in minus cū alijs positis
in hac pcedēte. ¶ Et si sit minor ppor° q̄ntitatis maioris ad 12ª reg°
q̄ntitatem minoris q̄ alterationis minoris ad alterationem maioris
veloci° inducet g° summus in minus q̄ in maius. Iste due p
pximas facilr demonstrantur. ¶ Si sit aliqd vnifor' diffor' 13ª reg°
terminatū ad summum alteratū latitudine vnifor' diffor' in nulla
ppor° veloci° vel tardi° inducet g° summus vel incipit indu
ci q̄ si p totum alteraret tali g° seu extremo latitudinis qd v'sus
extrem intēsius subti pcedit. Hoc sic pz. p sit extrem intēsius
alterationis v'sus extrem intēsius .a. subti. Et arguit sic. Uelo/
cius incipit g° summus induci in .a. q̄ si per totū aliq̄ gradui
intrinseco illi° latitudinis alteraret: sz in infinitum modica ppor° tar/
dius inducet mediāte aliq̄ gradu intrinseco istius latitudis
q̄ mediāte

q̃ mediãte extremo inteĩſiori:q2 ĩfinite modica eſt ꝓpor-
tio extremi inteĩſioris ad aliquẽ gᵐ intrinſecũ:g̃ in nulla ꝓpor-
tione tardius incipit gradus ſũmus induci q̃ ſi extremo
latiᵗⁱᵉ inteĩſiori per totũ alteraret̃.ꝯña pz ⁊ maior arguit̃:
q2 gſcũq; gradus intrinſecus bꝫ latiᵗⁱᵉ dete ſᵗ eſt ad certum
pũctũ intrinſecũ:⁊ ad oẽz pũctũ aliuz inter talẽ ⁊ extreᵐ inteẽ-
ſius eſt velocior alteratio q̃ ad illũ pũctuz ſignatũ gſcũq;
pũct⁹ fuerit:g̃ per ptẽ talẽ inter pũctuz datũ intrinſecuz ⁊ ex-
tremũ inteẽſius citius deueniet gradus ſũmus q̃ ſi per to-
tuz gᵐ alterationis ad illũ pũctuz extrĩẽ alteraret̃:⁊ p ꝯñs
velocior erit inductio:g̃ ⁊c̃. Hoc argᵐ tenet de oĩ gradu in-
trinſeco iſti⁹ latiᵗⁱᵉ:eo ꝙ qlibet talis gradus eſt ad certum
pũctuz intrinᶜᵘᵐ. ¶ Si ponat̃ extreᵐ remiſſius alterationis
v̄ſus extreᵐ inteẽſius ſubito:tũc arguit̃ ꝙ tardius incipit gra-
dus ſũmus induci q̃ ſi per totũ alteraret̃ aliq̃ gᵘ intrinſeco
iſti⁹ latiᵗⁱᵉ ⁊ infinite modice velocius mediãte aliq̃ gradu
intrinſeco q̃ mediãte extremo remiſſiori.ſeq̃t̃ g̃ ꝯclõ pro
14 reg vtraq; ſui pte. ¶ Si vnifor' difforme ⁊c̃.alteraret̃ vna
latiᵗᵉ vnifor' difformi extremo inteẽſiori alterationis v̄ſus
extreᵐ inteẽſius ſubito gradus ſũmus ꝯtinue tardius ⁊ tardi⁹
induceret̃.Sit eiz.a.aliqđ tale:⁊ ſit.c.aliq̃ pars remiſſa eius
nõ terminata ad ſũmuz:tũc ad extreᵐ remiſſius.c.erit tar-
dior alteratio q̃ erit ad extreᵐ inteẽſius eiuſdẽ vt cõſtat.g̃
latitudo in.c.maiorabit̃ extẽſiue:ita ꝙ extreᵐ inteẽſius tũc
per plus excedet extremũ remiſſius q̃ in pn̄ᵒ.Sit ergo.f.
ꝓpor⁹ q̃titatis.a.ad q̃titatẽ.c.⁊ det̃.b.inſtãs in quo.c.ter-
minabit̃ ad ſũmuz:⁊ ſeq̃t̃ ꝙ nũc eſt minor q̃.f.ꝓpor⁹ lati-
tudinis q̃litatis extẽſe per.a.ad latiᵗᵘᵈ qualitatis que extẽ-
dit̃ per.c.ꝯña pz:eo ꝙ.a.eſt vniformiter diffor':g̃ nũc mi-
nor eſt ꝓportio latitudinis q̃litatis.a.ad latiᵗᵘᵈ que in.b.in-
ſtãti erit per.c.q̃ q̃titatis.a.ad q̃titatẽ.c.Si g̃ nũc.a.alte-
ret̃ extremo inteẽſiori illi⁹ latitudinis alterationis:⁊.c.ſilr in
b.in iſtãti:tũc ſeq̃t̃ ꝙ velocius induceret̃ gradus ſũmus in
a.q̃ in.b.iſtãti in.c.ſicut 6ᵃ ꝯne ſatis pz.ſ3 nec nũc in.a.tar-
dius induceret̃ nec induceret̃ in.b.inſtãti in.c.q̃ ſi.a.nũc alte-
raret̃ extremo inteẽſiori ⁊.c.protũc vt ponit p'ma ꝯclo:g̃
nũc velocius inducit̃ ſeu incipit induci gradus ſũmus in
a.q̃ tũc induceret̃ in.c.⁊ tunc equeuelociter induceret̃ in.a.pciſe
ſic in.c.q2 equeuelociter induceret̃ in ptẽ ſicut in totũ:g̃ tũc
tardius induceret̃ in.a.q̃ nũc incipit.⁊ ſic pro oĩ iſtãti eſt ar-
guẽduz pro pte que tũc terminabit̃ ad ſũmũ.g̃ ſeq̃t̃ ꝯclo.
15 reg ¶ Si vniformiter difforme terminatũ ad ſũmuz alteret̃
latitudo vnifor' difformi extremo remiſſiori alterationis
v̄ſus extreᵐ inteẽſius ſubito velocius ⁊ veloci⁹ ꝯtinue indu-
cet̃ gradus ſũmus. Hoc pbat̃ vt pot.nã ſit.a.tale ⁊ det̃ ali-
qđ inſtãs ſcilꝫ.b.⁊ det̃ pars ꝓnũc terminata ad ſũmũ que
ſit.c.⁊ ſeq̃t̃ ꝙ.c.tũc habebit minorẽ latitudinẽ q̃ in pn̄ᵒ bꝫ
idẽ.c.eo ꝙ extreᵐ remiſſius.c.velocius intẽdet̃ extremo in-
teẽſiori eiuſdẽ:⁊ ſicut.a.in pn̄ᵒ eſt maius.c.ita bꝫ maiorẽ la-
titudinẽ:eo ꝙ totum.a.eſt vniformiter difforme:g̃ nũc eſt
minor ꝓportio q̃titatis.a.ad q̃titatẽ.c.q̃ eſt latiᵗⁱᵉ extẽſe
per.a.ad latiᵗᵘᵈ in.b.inſtãti extẽdẽdã per.c.g̃ per 7ᵃᵐ ꝯnẽz
ſi extremo remiſſiori illi⁹ latiᵗⁱᵉ alterationis nũc intẽderet̃
a.per totũ:⁊ in.b.inſtãti eodẽ gradu intẽderet̃.c.per totuz:
velocius induceret̃ gradus ſũmus in.c.q̃ nũc incipit in.a.ſ3
nũc in nulla ꝓpor' velocius incipit gradus ſũmus induci
in.a.q̃ ſi intẽderet̃ extremo remiſſiori illi⁹ latitudinis per
totũ:vt pz per 2ᵃᵐ ptẽ 13ᵉ ꝯnis.⁊ ſic ẽt argueret̃ de.c.in.b.
iſtãti.g̃ ſeq̃t̃ ꝙ in.b.inſtãti veloci⁹ induceret̃ gradus ſũmus
in.c.q̃ nunc incipit in.a.⁊ tũc equeuelociter in.a.ſicut in.c.eo
ꝙ.c.eſt pars.a.g̃ tũc velocius induceret̃ gradus ſũmus in.a.
q̃ nũc incipit:⁊ ſic de omni iſtãti ⁊ de pte ꝓnũc terminata
ad ſũmũ:imo ſic argueret̃ pro omni iſtãti poſteriori ꝙ ve-
locius induceret̃ gradus ſũmus q̃ in iſtãti priori.g̃ ſeq̃t̃ ꝯclo.
16 reg ¶ Si ſint duo vniformiter difformia eq̃li latitudine ter-
minata ad ſũmuz:quoꝝ vnũ alteret̃ latitu ͤ vnifor' diffor-
mi extremo inteẽſiori alterationis v̄ſus extreᵐ inteẽſius ſubito
⁊ aliud alteret̃ extremo remiſſiori illi⁹ latitudis per totuz
equecito fiẽt iſta ſũma. pbatio. Equecito extrema remiſ-
ſiora illoꝝ fient ſũma:⁊ iſta equecito fiẽt ſũma cuz extre-
mis ſuis remiſſioribꝫ.g̃ iſta 2ᵒ equecito fiẽt ſũma. Maior
pz:q2 extrema remiſſiora equalr diſtãt a ſũmo ⁊ eq̃lis cõ-
tinue erit alteratio ad 1ᵃ extrema:g̃ equecito erũt 1ᵃ ſũma.
Et ꝙ 1ᵃ equecito erũt ſũma cum ſuis extremis remiſſiori-
bus pbat̃.nã nõ citius erunt ſũma q̃ 1ᵃ extrema:q2 tũc fo-
rẽt ſũma ⁊ ptes cẽnt remiſſe:qđ eſt incõueniẽs.Et ꝙ ita ci-
to erunt ſũma cum illis extremis pbo:q2 ad oĩa pũcta in-
trinſeca ipſi⁹.a.citius deueniet gradus ſũmus q̃ ad extreᵐ
remiſſius:⁊ q2 per minus diſtãt a ſũmo ⁊ ita ad illa velo-
cior erit alteratio:⁊ ſilr oĩa pũcta intrinſeca ipſius.b.per mi-
nus diſtãt a ſũmo q̃ extreᵐ ſuum remiſſius ⁊ eq̃uelox erit
alteratio ad oĩa pũcta intrinſeca ſicut ad extreᵐ remiſſius.
ſeq̃t̃ g̃ ꝯclo. ¶ Qz iſta ſit falſa pbat̃.Et pono ꝙ.a.ſit illud 3 regᵃ
qđ alterat̃ latitudine vnifor' difformi:⁊.b.ſit eq̃lis q̃tita-
tis:⁊ ꝯſilr diſpoſitũ cum.a.alteratũ gradu remiſſiſſimo
iſtius latiᵗⁱᵉ alterationis.tũc arguit̃ ꝙ.a.pri⁹ erit ſũmuz q̃
b.q2 oĩa puncta correſpondẽtia.a.⁊.b.equalr diſtãt a gᵘ ſũmo:
⁊ velocior erit alteratio ad oẽm pũctuz.a.intrinſecũ q̃ ad
pũctuz correſpondẽtẽ in.b.g̃ ꝯtinue velocior erit inductio gra-
dus ſũmi in.a.q̃ in.b.⁊.a.⁊.b.ſunt equalia q̃titatiue:g̃ ci-
tius deueniet gradus ſũmus per.a.q̃ per.b. ¶ Hoc cõfir-
mat̃.ſi ad oẽm pũctuz.a.foret eq̃lis alteratio ſicut ad pun-
ctũ correſpondẽtẽ in.b.tũc equecito fiẽt iſta ſũma.ſed nũc ad
oẽm pũctuz.a.citius deueniet gradus ſũmus q̃ tunc deue-
niret:g̃ nᶜ citius fiet ſũmum q̃.b. ¶ 2ᵒ arguit̃ ſic.Oĩs lati- 2ᵒ
tudo vnifor' difformis correſpondet alicui gradui intrinſeco:g̃
ſi.a.alteret̃ tali gᵘ:ita cito fiet ſũmuz ſicut nũc:⁊ tũc citius
fiet ſũmuz q̃.b.q2 per totuz.a.tũc foret velocior alteratio
q̃ per.b.g̃ nũc citius fiet.a.ſũmuz q̃.b. ¶ 3ᵒ arguit̃ ſic.Di- 3ᵒ
uido.a.in ptes ꝓporˡᵉˢ v̄ſus extreᵐ remiſſius:⁊ etiã.b.tunc
q̃cũq; pars ꝓporˡⁱˢ.a.citius fiet ſũma q̃ pars ꝓporˡⁱˢ cor-
reſpondẽs in.b.⁊ totuz eſt pciſe cõpoſitũ ex oĩbus ſuis ptibus
ꝓportionabilib⁹:g̃ citius fiet.a.ſũmuz q̃.b. ¶ Cõcedẽda Solo
eſt ꝯclo.Et ad pᵐ argᵐ negãda eſt hec ꝯña:ad oẽz pũctuz
a.eſt ita inteẽſa q̃litas ſicut ad pũctuz correſpondẽtẽ in.b.⁊ ve-
locior erit alteratio ad oẽm pũctuz.a.q̃ ad pũctuz corre-
ſpondẽtẽ in.b.g̃ velocius ꝯtinue induceret̃ gradus ſũmus in.a.
q̃ in.b.q2 ⁊ ſi pars ſm ſe totã remiſſa ipſius.a.cõtinue erit
eque inteẽſa cuz pte ſm ſe totã remiſſa ipſius.b.pars tñ ſm
ſe totã remiſſa illi⁹.a.ꝯtinue erit minoris q̃titatis q̃ pars
ſm ſe totaz remiſſa ipſius.b.ideo lꝫ velocior erit alteratio
in.a.q̃ in.b.ꝯtinue:nõ ſeq̃t̃ ꝙ ꝯtinue velocius induceret̃ gra-
dus ſũmus in.a.q̃ in.b. ¶ Ad 2ᵐ argᵐ qñ arguit̃ ꝙ altera-
tio in.a.correſpondet alicui gradui intrinſeco vt ſic extẽdit̃ ꝯce-
dit̃.Et qñ arguit̃ vltra:g̃ ſi.a.alteraret̃ 1ᵒ gradu ꝯtiᵉ eque-
cito pciſe fiet ſũmuz ſicut nunc:nõ valet ꝯña:q2 tunc nõ
foret alteratio ꝯtinue per eq̃lẽ ptẽ ſicut nunc eſt:⁊ ad ali-
quẽ punctũ tũc foret multo inteẽſior alteratio q̃ nunc eſt.
¶ Ad 3ᵐ argᵐ ꝯcedit̃ ꝙ q̃libet pars ꝓporˡⁱˢ.a.ſm illã diui-
ſionẽ citius erit ſũma q̃ pars ꝓporˡⁱˢ correſpondẽs in.b.g̃ totũ
a.citius erit ſũmuz q̃.b.negãda eſt ꝯña. Qz ꝯña nõ va-
leat pbat̃ per exᵐ.capiant̃ duo pedalia ⁊ diuidant̃ in par-
tes ꝓporˡᵉˢ.⁊ pono ꝙ in qualibet pte iſtius hore ꝓporˡⁱˢ p-
tranſeant̃ due ptes ꝓportionales vnius:⁊ in q̃libet pte ꝓ-
portionali hore ſoluz vna pars alterius ptrãſeat̃:tũc que-
cũq; pars vnius citius ptrãſitur q̃ pars ꝓportionalis alte-
rius correſpondẽs:vt ſatis pz.⁊ tñ 1ᵃ duo equecito erũt ptranſi-
ta:q2 ſemꝑ erit ꝓportio dupla ptiũ ptrãſitaꝝ vni⁹ ad nu-
merũ ptiũ ptrãſitaꝝ alterius:g̃ cum ĩfinite ptes erunt p-
trãſite vni⁹:ſeq̃t̃ ꝙ ĩfinite ptes erunt ptrãſite alterius: q2

aliter vni⁹ numeri ad aliū foret īfinita ꝓportio. Sꝫ ꝑtrā/
sitis īfinitis ꝑtibus ꝓportionabilib⁹ illoꝝ spacioꝝ erunt i°
spatia ꝑtrāsita: eo ꝙ sua mobilia incipiūt moueri in extre
mo vbi ꝑtes maiores terminant̄. ⁊ ideo nō valet ꝯña fa
cta. ¶ Ad solonē. n. p̄mi argⁱ: ⁊ pro maiori explanatione
17ª reg. mãe due ɔ̃nes sunt notande: quaꝝ p⁹ est hec. ¶ Si sit ali/
quid vnifor' difforme terminatū ad sūmuꝫ alteratū lati/
tudine alterationis vnifor' difformi extremo itēsiori alte
rationis v̄sus extreᵐ intēsius subito: ad nō gᵐ remitteret̄ in/
ductio gradus sūmi, nulla facta aliūde mutatiōe. Hec cō/
clusio pꝫ dupl'r. p̄ sic. Sit. a. id alteratū latitudine tali: vt
ponit̄ in casu ꝑcedēti extremo intēsiori alterationis v̄sus
extreᵐ intēsius. a. et ponat̄ grā argⁱ ꝙ extreᵐ intēsius illi⁹
alterationis sit dupᵐ ad extreᵐ remissius eiusdē: ⁊ alteret̄
b. extremo remissiori istius latitudinis: tūc equecito deue
niet gradus sūmus per. a. b. vt pꝫ. Et nunc veloci⁹ incipit
gradus summus induci in. a. ꝙ̄ in. b. vt ɔ̄stat: q2 a. ⁊ b. sunt
oīno eque intēsa. Et ad oēm pūctuꝫ v̄sus extreᵐ intēsius. a.
est velocior alteratio ꝙ̄ puncto correspondēti in. b. g̊ aliqñ tar
dius inducet̄ gradus sūmus in. a. ꝙ̄ in. b. q2 aliter cici⁹ fie/
ret. a. sūmuꝫ ꝙ̄. b. ꝯñs falsum. Et sic seq̄t̄ ꝙ aliqñ equeue/
lociter inducet̄ gradus sūmus in. a. sic̄ in. b. Det̄ g̊ tale in/
stans: ⁊ seq̄t̄ ꝙ pars remissa ipsi⁹. a. tunc erit in duplo mi/
nor ꝙ̄ pars remissa ipsius. b. eo ꝙ alteratio ad extreᵐ intē/
sius ꝑtis remisse. a. erit dupla ad alteratione ꝑtis correspondē
tis. b. ⁊ si eq̄uelo' induceret̄ gradus sūmus in ineq̄lia eadē
latiᵗᵉ vnifor' difformi req̄rit̄ ꝙ tāta sit ꝓportio alteratio/
nis minoris ad alteratōeꝫ maioris quāta q̄ntitatis ad q̄nti/
tatē si gradib⁹ vnifor'ᵇ alterent̄: vt ponit 10ª ɔ̄clō. Sꝫ per
13ᵃᵐ in nulla ꝓporᵗᵉ veloci⁹ vel tardius induceret̄ gradus
sūmus in aliq̄ instāti ꝙ̄ tunc si extremo itēsiori istiⁿ latitu/
dinis alterarēt̄ per totuꝫ: g̊ cuꝫ extreᵐ intēsius alterationis
sit dupluꝫ ad extreᵐ remissius eiusdē: pꝫ ꝙ pro isto instāti
in quo gdus sūmus eq̄uelo' inducet̄ ꝑ ꝑ se in. a. sic̄ in. b. erit
q̄ntitas ꝑtis remisse. a. subdupla ad q̄ntitatē ꝑtis remisse
b. ⁊ in eq̄li tp̄e ꝑcise fiēt ille ꝑtes sūme: g̊ aliqñ post id in/
stans in duplo tardi⁹ inducet̄ gdus sūmus in. a. ꝙ̄ in. b. eo
ꝙ tunc erit pars remissa. a. subdupla ad ꝑtē remissam. b.
Signet̄ g̊ id istās in quo in duplo tardi⁹ inducet̄ in. a. ꝙ̄ in
b. ⁊ seq̄t̄ ꝙ pars remissa. a. tunc erit in q̄druplo minor ꝙ̄
pars remissa. b. q2 si pars remissa. a. tūc eēt subdupla ꝑci/
se ad ꝑtē remissam. b. eq̄uelo' induceret̄ gradus sūmus in
a. sic̄ in. b. vt argutū est. sꝫ nūc in duplo tardi⁹ inducet̄ gra/
dus sūmus in. a. ꝙ̄ tunc induceret̄ vt pꝫ: g̊ nunc est q̄ntitas
a. in duplo minor ꝙ̄ tunc eēt: ⁊ per ꝯñs in tᵒ istāti in quo gᵘ
sūmus in duplo tardius inducet̄ in. a. ꝙ̄ in. b. erit q̄ntitas
ꝑtis remisse. a. in q̄drup⁹ minor ꝑte remissa. b. ⁊ si sic aliqñ
in q̄dru⁹ tardi⁹ inducet̄: q2 post illud istās eq̄cito ꝑcise ista
pars remissa. a. subq̄drupla erit sūma sic̄ pars remissa. b.
q̄drupla: dato g̊ tali istāti in quo in q̄druplo veloci⁹ indu/
cet̄ gdus sūmus in. b. ꝙ̄ in. a. ⁊ seq̄t̄ per ꝑargutā ꝙ tūc erit
q̄ntitas ꝑtis remisse. a. suboctupla ad q̄ntitatē ꝑtis remisse
b. ⁊ sic post in octuplo tardius inducet̄ in. a. ꝙ̄ in. b. ⁊ sic in
infiᵐ: ita ꝙ ꝓpor° q̄ntitatis ꝑtis remisse. b. ad q̄ntaᵗᵉᵐ ꝑtis re/
misse. a. excedit ꝓporᵉ inductiōis gᵘ sūmi in. b. supra indu
ctionē gradus sūmi in. a. per ꝓporᵉ duplā. Si. n. ɔ̄sil'is eēt
alteratio in ꝑte remissa. b. sic̄ in ꝑte remissa. a. tūc eq̄lis eēt
ꝓportio q̄ntitatis ꝑtis remisse. b. supra q̄ntitatē ꝑtis remis/
se. a. sic̄ inductiōis supra inductiōeꝫ ⁊c̄. Sꝫ nunc pro oī in/
stāti in duplo tardi⁹ inducet̄ gᵘ sūmus in. b. ꝙ̄ tūc: q2 tunc
alteratio ad extreᵐ itēsius eēt in duplo maior in. b. ꝙ̄ nūc
est. Et q̄lisc̄uq3 aliqñ erit ꝓpor° q̄ntitatis remisse ꝑtis. b. su/
pra q̄ntitatē ꝑtis remisse. a. talis postea erit inductionis su/
pra inductiōeꝫ: eo ꝙ he ꝑtes eq̄cito erūt sūme: g̊ cuꝫ indu/
ctio gdus sūmi in. b. ꝯtiⁿ manebit vniformis: seq̄t̄ ꝙ in ifiᵐ

remittet̄ inductio gdus sūmi in. a. qđ fuit ꝓbanᵐ. ¶ Uel 2
sic arᵗ. Signet̄ illud instās in quo equeuelo' ꝑcise inducet̄
gdus sūmus in. a. sic̄ in. b. ⁊ seq̄t̄ vt arguīuꝫ est: ꝙ tūc pars
remissa. a. s̄m se totā erit in du⁹ minor tota ꝑte remissa. b.
Sit g̊. c. tunc eq̄lis toti ꝑti remisse. a. ⁊ ɔ̄sil'r dispoᵐ ⁊ alte/
ret̄ tunc eodē gᵘ quo. b. ⁊ seq̄t̄ ꝙ tunc veloci⁹ inducet̄ gra/
dus sūmus in. a. ꝙ̄ in. c. q2 alteratio erit velocior ⁊ oīa alia
erunt paria: ⁊ pars illa. a. ita cito fiet sūma sic̄. c. g̊ post id
instās eq̄uelo' inducet̄ gᵘ sūmus in. a. sicut in. c. Det̄ g̊ tale
instās ⁊ seq̄t̄ vt ꝑus ꝙ pars remissa. a. erit in duplo minor
ꝑte remissa. c. sit g̊. d. tale sic̄ tunc erit pars remissa. a. ⁊ alte
ret̄ eodē gᵘ quo. b. ⁊ seq̄t̄ vt ꝑus ꝙ tunc veloci⁹ inducet̄ in
a. ꝙ̄ in. d. ⁊ eq̄cito fiet sūma: ⁊ tunc erit pars remissa. a. ⁊ to
tuꝫ. d. eq̄lis q̄ntitatis. a. g̊ aliqñ post eq̄uelo' inducet̄ gdus
sūmus in. a. sic̄ in. d. ⁊ sic in ifiᵐ. cuꝫ g̊ in. c. inducet̄ gradus
sūmus in duplo tardius ꝙ̄ in. b. ⁊ sic in ifiᵐ. seq̄t̄ ꝙ in ifiᵐ
veloci⁹ inducet̄ gradus sūmus in. b. ꝙ̄ in. a. ⁊ sic seq̄t̄ ꝙ in
a. remittet̄ inductio gdus sūmi ad non gᵐ: qđ fuit ꝓbanᵐ.
¶ Si volueris hic argᵐ gñale dicas sic. sit. f. ꝓpor° extre/
mi itēsioris istiⁿ alterationis ad extreᵐ remissius eiusdē: ⁊
alteret̄. b. extremo remissiori vt ꝑus. Tunc argᵗ sicut ꝑus.
equecito fient. a. ⁊. b. sūma: ⁊ veloci⁹ incipit gradus sūmus
induci in. a. ꝙ̄ in. b. g̊ aliqñ eq̄uelo' ꝑcise inducet̄ in. a. sicut
in. b. ⁊ per ꝯñs in tᵒ instāte erit. f. ꝓportio q̄ntitatis ꝑtis re/
misse. b. ad q̄ntitateꝫ ꝑtis remisse. a. ⁊ eq̄cito fient iste ꝑtes
sūme: g̊ post in. f. ꝓporᵉ tardius inducet̄ gradus sūmus in
a. ꝙ̄ in. b. ⁊ sic erūt tunc due. f. ꝓporᵉˢ q̄ntitatis ꝑtis remis/
se. b. ad ꝑtē remissam. a. vt ꝑus arguebat̄ de duab⁹ ꝓpor/
tionib⁹ duplis: ⁊ per ꝯñs post in duab⁹. f. ꝓporᵇ⁹ velocius
inducet̄ in. b. ꝙ̄ in. a. ⁊ sic in ifiᵐ semp. f. ꝓporᵉ maiorādo
per vnā. f. ꝓporᵉᵐ vt ꝑus arguīuꝫ est de ꝓporᵇ⁹ duplis. Idē
argᵐ pōt formari de illis īfinitis ⁊ facilius vt in ꝓporᵉ du
pla arguīuꝫ est. ¶ 3° arguit̄ ad idē. Ad cuius ꝓbationē est 18ª reg.
nōnᵐ. p̄ ꝙ si maius ⁊ minus sint ɔ̄sil'r disposita ⁊ alterata
gradib⁹ ineq̄lib⁹: ita ꝙ maius gradu remissiori alteret̄ et
velocius inducat̄ gradus sūmus in maius ꝙ̄ in minus ꝓ
portio q̄ntitatis ad q̄ntitatē excedit ꝓporᵉᵐ inductionis ad
inductionē per tātā ꝓporᵉᵐ quāta est alteratiōis ad altera/
tionē. Hoc sic pꝫ. Sint eīꝫ. a. maius ⁊. b. minus ɔ̄sil'r dispo
sita: ⁊ alteret̄. a. gradu in. f. ꝓporᵉ remissiori ꝙ̄. b. inducat̄
tñ in. a. velocius gradus sūmus ꝙ̄ in. b. vt per 11ᵃᵐ constat
esse possibile: ⁊ sit. c. ꝓportio q̄ntitatis ad q̄ntitatē maior ꝙ̄
est. f. tunc sic argūt̄. Si eodē gradu alteret̄. a. sicut. b. tunc
inducet̄ gradus sūmus in. a. in. c. ꝓporᵉ velocius ꝙ̄ in. b.
vt ponit 8ª ɔ̄clō: sꝫ nunc in. f. ꝓporᵉ tardius inducet̄ gdus
sūmus in. a. ꝙ̄ tunc: vt pꝫ per 9ᵃᵐ ɔ̄nēq2 nunc in. f. ꝓporᵉ
tardius alteraret̄. a. ꝙ̄ tunc alteraret̄: ergo. c. ꝓportio ex/
cedet ꝓporᵉᵐ que est ꝓportio inductiōis gradus sūmi in. a.
ad inductionē gradus sūmi in. b. per. f. ꝓporᵉᵐ. Si eīꝫ duo Regula ꝓ
ineq̄lia cōparent̄ ad 3ᵐ in ꝓporᵉ maioris ineq̄litatis quā/ portionū.
ta est ꝓportio maioris ad minus istoꝝ duoꝝ per tātaꝫ ꝓ
portionē excedit ꝓportio maioris ad 3ᵐ ꝓportionē mino/
ris ad 3ᵐ: eo ꝙ ꝓportio maioris ad id 3ᵐ deducit̄ ex ꝓpor
tione maioris ad minus ⁊ ex ꝓporᵉ minoris ad 3ᵐ: g̊ cuꝫ. c.
sit ꝓportio q̄ntitatis ad q̄ntitatē. pꝫ g̊ ⁊c̄. ¶ 2° notādū ꝙ si 19ª reg.
maior ꝓportio sit q̄ntitatis ꝑtis remisse maioris ad ꝑtē
remissam minoris ꝙ̄ inductiōis gradus sūmi in maius ad
inductioneꝫ gradus sūmi in minus: ꝓportio q̄ntitatis ꝑtis
remisse maioris ad q̄ntitatē ꝑtis remisse minoris maiorā/
bit̄ deducta rarefactione ⁊ ɔ̄densatione ⁊ alijs motibus in
ꝑtib⁹. Hoc sic pꝫ. Sit eīꝫ. a. maius ⁊. b. minus in. c. ꝓporᵉ:
tunc si in. c. ꝓportione velocius inducet̄ gradus sūmus in
a. ꝙ̄ in. b. ꝯtinue maneret. c. ꝓportio q̄ntitatis ꝑtis remisse
a. ad q̄ntitateꝫ ꝑtis remisse. b. eo ꝙ pars remissa nō minora
ret̄ nisi per inductionē gradus sūmi: sꝫ nunc est minor ꝙ̄

c. ꝓportio

c. ꝑportio inductionis gradus ſũmi in.a.ad inductionem gradus ſũmi in.b.ḡ nõ in.c. ꝑportionē velocius minorat̃ pars remiſſa.a.q̃ȝ pars remiſſa.b.ꝛ eſt.c. ꝑportio q̃ntitatis ad q̃ntitatē ꝛc.ḡ ꝑportio q̃ntitatis remiſſe ptis.a.ad ptē re
3 miſſam.b.maiorat̃:qḋ fuit ꝓbanᵈᵘᵐ. ¶ Per h̾ facilr̃ demõſtrat̃ ꝯclõ 17ᵃ. Ponat̃ enĩ ꝙ.a.alteret̃ latitudine vnifor̃ difformi extremo īteſiori v̄ſus extreᵐᵘᵐ īteſius ſubi:ꝛ ſemꝑ alteret̃ tota pars remiſſa.a.latiᵗᵘᵈᶦⁿᵉ illa ſicut nunc eſt de tota a.ꝛ alteret̃.b.oĩno ſilr̃.a.extremo remiſſiori iſtius latiᵗᵘᵈᶦⁿᶦˢ:ꝛ ſic ſit.f.ꝑportio extremi īteſioris iſtius latiᵗᵘᵈᶦⁿᶦˢ ad extreᵐᵘᵐ remiſſius eiuſdē:nunc eq̄cito fient.a.ꝛ.b.ſũma:vt ꝓbat ꝯclõ 16ᵃ.ꝛ velociꝰ incipit ḡdus ſũmus induci in.a.q̃ȝ in.b.ꝛ.a.ꝛ b.ſunt oĩno eq̄lia:ḡ aliqñ tardiꝰ inducet̃ ḡdus ſũmus in.a. q̃ȝ in.b.det̃ ḡ tale īſtãs:ꝛ ſeq̄t̃ ꝙ pars remiſſa.b.ſit maior q̃ȝ pars remiſſa.a.ḡ ſi pars remiſſa.a.nũc per totũ alteret̃ gᵘ īteſiſſimo illiꝰ latitudinis alteratiõis ꝑportio q̃ntitatis ptis remiſſe.b.ad partē remiſſam.a.excedit ꝑporᵒⁿᵉ inductiõis gradus ſũmi in.b.ad inductionē gradus ſũmi in.a. per.f. ꝑporᵒⁿᵉ:vt ꝑȝ per 18ᵃᵐ ꝯnē.ꝛ nᶜ in nulla ꝑportiõe velocius vel tardius inducet̃ gradus ſũmus in.a.q̃ȝ ſi alteraret̃ extremo īteſiori illiꝰ latiᵗᵘᵈᶦⁿᶦˢ:vt ponit 13ᵃ ꝯclõ.ḡ ꝑportio q̃ntitatis ptis remiſſe.b.ſupra q̃ntitatē ptis remiſſe.a.excedit ꝑporᵒⁿᵉ inductiõis gradus ſũmi in.b.ad inductiõeȝ gradus ſũmi in.a.p.f.ḡ per 19ᵃᵐ ꝑportio q̃ntitatis ptis remiſſe b.ad q̃ntitatē ptis remiſſe.a.maiorat̃:ꝛ ſic pro oĩ īſtãti poſteriori eſt arguēduȝ ꝙ ſemꝑ erit maior ꝑportio q̃ntitatis ptis remiſſe.b.ad q̃ntitatē ptis remiſſe.a.q̃ȝ inductiõis gradus ſũmi in.b.ad inductionē gradus ſũmi in.a.ḡ ꝑportio q̃ntitatis ptis remiſſe.b.ſupra quãtitatē ptis remiſſe.a.ꝯtiᵉ
In h̾ cõ ſiſtit ius argᵘ. maiorabit̃ poſt īſtãs datuȝ. ¶ Ex h̾ argᵘ ꝙ in iñⁿ maiorabit̃ ꝑportio inductionis in.b.ſupra inductioneȝ in.a.q2 ſi nõ:ſit ꝙ maiorabit̃ ꝑportio tãtuȝ ad gᵘᵐ finitum.ſ.ad.c. ꝑporᵒⁿᵉ ꝛc.arguit̃ ſic. Proportio q̃ntitatis ptis remiſſe.b. ad q̃ntitateȝ ptis remiſſe.a.ꝯtinue excedet inductionē gradus ſũmi in.b.ad inductionē gᵘ ſũmi in.a.per.f. ꝑporᵒⁿᵉ vt ꝑargᵘ. Si ḡ ꝑportio inductionis ḡdus ſũmi in.b.ad inductionē gᵘ ſũmi in.a.deſineret ad.c. ꝑporᵒⁿᵉ:ſeq̄t̃ ꝙ ante finē erit maior q̃ȝ ꝑportio q̃ntitatis ptis remiſſe.b.ad q̃ntitateȝ ptis remiſſe.a.que ptes eq̄ueito fiēt ſũme.ſ.in fine tp̄is:ḡ ante finē erit inductio gᵘ ſũmi in.b.plus q̃ȝ in.c. ꝑportiõe maior inductione gᵘ ſũmi in.a.ḡ nõ ſolũ maiorabit̃ ꝑporᵒ inductiõis gᵘ ſũmi in.a.ad.c. ꝑporᵒⁿᵉ.ꝛ ſic de oĩ alio gᵘ finito ꝑporᵒⁿᶦˢ eſt arguēduȝ:ḡ in iñⁿ maiorabit̃ ꝑportio inductionis gᵘ ſũmi in.b.ſupra inductioneȝ gᵘ ſũmi in.a.ꝛ in.b. ꝯtiᵉ manebit vniformis:ḡ in īfinituȝ remittet̃ in.a.qḋ fuit
20ᵃ regᵃ ꝓnᵗᵉ īteñtuȝ. ¶ 2ᵃ ꝯclõ notãda eſt hec. Si vnifor̃ difforme terminatũ ad ſũmuȝ alteret̃ latiᵗᵘᵈᶦⁿᵉ alteratiõis vnifor̃ difformi extremo remiſſiori illiꝰ alterationis ꝯtiᵉ v̄ſus extreᵐᵘᵐ īteſius totiꝰ ptis ſm̄ ſe totã remiſſe:ꝛ extremo īteſiori alterationis quieſcēte ad extreᵐᵘᵐ remiſſius ſubi nulla facta mutatiõe aliũde per illud in iñⁿ īcēdet̃ inductio gᵘ ſũmi. h̾ deducit̃ ſicut ꝯclõ ꝑcedēs:vbi auȝ arguebat̃ ꝙ aliqñ in duplo velociꝰ inducet̃ gᵘ ſũmus in.b.q̃ȝ in.a.ꝛ in q̃druplo velocius:ꝛ ſic in iñⁿ.nũc arguet̃ ꝙ in duplo velociꝰ aliqñ inducet̃ in.a.q̃ȝ in.b.ꝛ in q̃druplo velociꝰ:ꝛ ſic in iñⁿ tardius.n.nunc incipit induci in.a.q̃ȝ in.b.ꝛ ſic ſeq̄t̃ ꝯclõ manifeſte que eſt ꝯceᵈᵃ.
Priᵃ ꝯclõ ꝯ̄ dictas regulas:ꝛ eſt.21.regula 1 ordĩe. ¶ Contra iſtas ꝯnes argᵘ ſic. Ex iſtis ſeq̄t̃ ꝙ in.a.ſtãte alteratione gᵘ ſũmus vnifor̃ inducet̃:ꝛ ad oēȝ eius pũctuȝ īcēdet̃ alteratio vltra duᵐ:ꝛ tñ in infiᵗᵘᵐ tarde inducet̃ gᵘ ſũmus in ideȝ.a.ipſo aliũde nõ variato. Et ꝙ hec ſit falſa arguit̃.ex ꝙ ad oēȝ punctũ alteratio intēdit̃ potiꝰ:ſeq̄t̃ īteſio inductionis gᵘ ſũmi q̃ȝ eius remiſſio ad nõ gᵘᵐ. Alteret̃.a.vnifor̃ difforme terminatũ ad ſũmũ gᵘᵐ vniformi vt 4ᵒʳ:ꝛ alteret̃.b.ſilr̃ q̃litatiue ꝛ quãtitatiue ipſi.a.mediãte latiᵗᵘᵈᶦⁿᵉ alteratiõis vnifor̃ difformi a.18.vſq̄

ad.10.que latitudo ſemꝑ extēdat̃ vnifor̃ per pteȝ remiſſam.b.extremo remiſſiori v̄ſus extreᵐᵘᵐ remiſſius.b.ꝛ intēdat̃ alteratio ad oēm punctũ.a.ita ꝙ ad oēm pũctuȝ correſpõdeat alteratio eidē gradui ſicut ad pũctũ correſpõdētē in b.ꝛ ſeq̄t̃ ꝙ per.a.vniformiter inducet̃ gradus ſũmus ſtãte alteratione:eo ꝙ alterat̃ vno gradu vniformi ad oēm eius pũctuȝ:ꝛ intēdit̃ alteratio vltra dupluȝ:q2 ad gᵘᵐ ad pũctuȝ correſpõdētē in.b.ꝛ nũc ad oēm pũctuȝ.a.eſt plus q̃ȝ in duplo remiſſior alteratio q̃ȝ ad pũctuȝ correſpõdētē.b.vt ꝑȝ.ḡ ꝑȝ iſta pticula. Et ꝙ īfinituȝ tarde inducet̃ ḡdus ſũmus in idē.a.ꝓbat̃:q2 īfinite tarde inducet̃ gradus ſũmus in.b.ꝛ eq̄velociᵗᵉʳ ꝯtinue inducet̃ gradus ſũmus in.a.ſicut in.b.ꝑciſe:ḡ īfinite tarde in.a.ꝯña ꝑȝ ꝛ maior ſilr̃ per ꝯnēȝ primã.ꝛ minor arguit̃. Eidē gradui correſpõdebũt alterationes ad oēm pũctuȝ.a.ſicut ad pũctuȝ correſpõdētē in b.vt ponit̃:ꝛ ad oēm pũctuȝ.a.eſt īteſio ꝑciſe vſq̄ ad īſtans in quo gradus ſũmus deueniet ad pũctuȝ correſpõdētē b.vt ſuppono:ḡ ad oēm pũctuȝ.a.eq̄ueito ꝑciſe deueniet gradus ſũmus ſicut ad pũctuȝ correſpõdētē in.b.ꝯña tenet per h̾ ꝙ oĩa puncta.a.ꝛ.b.correſpõdētia equalr̃ diſtãt a gradu ſũmo.ḡ ſeq̄t̃ ꝙ eq̄velociᵗᵉʳ ꝯtinue inducet̃ gradus ſũmus in.a.ſicut in.b.ḡ ſequit̃ ꝯclõ. ¶ Itē ſequit̃ ꝙ in.a.b.ſubiectis
oĩno ſilia eodē gradu alterata ſtãte alteratiõe eq̄velociᵗᵉʳ inducet̃ gradus ſũmus:ꝛ ad oēm pũctuȝ.a.īcēdet̃ alteratio ad gᵘᵐ plus q̃ȝ in duplo īteſiorē q̃ȝ ad pũctuȝ correſpõdentē b.ꝛ tñ īfinite velociꝰ inducet̃ gradus ſũmus in.b.q̃ȝ in.a. īmo ſeq̄t̃ ꝙ in īfinituȝ intēdet̃ inductio gradus ſũmi in.b. ꝛ in īfinituȝ remittet̃ in.a.ꝛ plus q̃ȝ in duplo velocius intēdet̃ alteratio ad oēȝ pũctuȝ.a.ꝛc. Et h̾ videt̃ ĩpoſſibile:q2 ſi alteratio.a.velociꝰ intēdit̃ q̃ȝ in.b.videt̃ ꝙ ſemꝑ eēt velocior inductio gradus ſũmi in.a.q̃ȝ in.b. Qȝ tñ hec ꝯcluſio ſequat̃ arguit̃ ſic. Ponat̃ de.a.vt ꝑus:ꝛ ſit iſta īteſio alterationis ad oēm pũctuȝ.a.vniformis vt ꝯſtat eē poſſibile:eo ꝙ ab omni gᵘ ꝛ ſeq̄ ad quẽcũq̄ aliuȝ põt in q̃cũq̄ magno tp̄e vel paruo intēdi vnifor̃:ꝛ ſit.b.etiã alteratuȝ gradu vt 4ᵒʳ:qḋ.b.ſit oĩno ſile ipſi.a.ꝛ ſeq̄t̃ ꝙ ſtãte alteratione eq̄velociter inducet̃ gradus ſũmus in.a.ſicut in.b.quia ſunt ſilia q̃litatiue ꝛ q̃ntitatiue eodē gradu alterata. Ponat̃ ḡ ꝙ.c.ſit ſile vtriq̄.ſ.tã.a.q̃ȝ.b.alteratuȝ latitudine vniformiter difformi alteratiõis a q̄nq̄ vſq̄ ad 4ᵒʳ:cuiꝰ extreᵐᵘᵐ īteſius ſit v̄ſus extreᵐᵘᵐ remiſſius.c.ꝛ ponat̃ ꝙ ad oēȝ punctuȝ.b.intēdat̃ alteratio vniformiter:ita ꝙ correſpõdeat alterationi ad pũctum correſpõdentē.c.in eodē tp̄e in quo gradus ſũmus ad illũ pũctuȝ.c.deueniet.ꝛ ſequit̃ ꝙ ad oēm punctũ.a.intēdet̃ alteratio vltra dupluȝ gᵘᵐ ad iſtũ ad quē intēdet̃ alteratio ad pũctuȝ correſpõdētē.b.q2 ad extremuȝ remiſſius.b.intēdet̃ alteratio ad gᵘᵐ vt ſex:eo ꝙ vniformiter intēdet̃ ab iſto gradu vt 4ᵒʳ:et correſpõdebit gradui vt q̄nq̄:quia oīs latitudo vniformiter acq̄ſita ſuo gradui medio correſpõdet vt acq̄rit̃:ꝛ ad extremũ remiſſius.a.intēdet̃ ad gᵘᵐ vt.16.eo ꝙ vniformiter intēdit̃.a.gradu vt 4ᵒʳ:ꝛ ita ꝙ tota iſta alteratio ad id extreᵐᵘᵐ gradui vt.10.correſpõdebit qui recte erit gradus medius iſtiꝰ latiᵗᵘᵈᶦⁿᶦˢ:ꝛ gradus vt 16.eſt plus q̃ȝ duplus ad gᵘᵐ vt ſex:ꝛ ad oēm pũctuȝ intrinſecuȝ.a.correſpõdebit alteratio gradui īteſiori q̃ȝ ad extreᵐᵘᵐ remiſſius:vt ponit̃ in caſu:ꝛ ad oēm eius pũctum intēdit̃ alteratio vniformiter a gᵘ iſto vt 4ᵒʳ:ḡ ad oēm pũctuȝ intrinſecuȝ.a.intēdit̃ alteratio ad gᵘᵐ īteſioreȝ q̃ȝ ad extreᵐᵘᵐ remiſſius eiuſdē:ꝛ ad oēm pũctuȝ intrinſecuȝ.b.intēdit̃ alteratio ad gᵘᵐ remiſſiorē q̃ȝ ad extreᵐᵘᵐ eius remiſſius.ḡ ſeq̄tur ꝙ ad oēm pũctuȝ.a.intēdit̃ alteratio ad gᵘᵐ plus q̃ȝ dupluȝ ꝛc.ꝛ etiã plus q̃ȝ in duplo velociꝰ ꝛc.q2 ad oēm punctuȝ.a.plus q̃ȝ in duplo maior latitudo acq̄rit̃ q̃ȝ ad punctuȝ correſpõdētē in.b.ꝛ in tp̄e minori vt ꝑȝ:q2 ad oēm punctuȝ.a.citius deueniet gradus ſũmus q̃ȝ ad pũctuȝ correſpõ-

dētez in.b.q̄a alteratio eſt velocior ⁊c̄.q̄a ita velociter inducet̄ in.b.ſicut in.c.vt p3:q̄a oīa pūcta.b.c.equal'r diſtātia a ſūmo ⁊ oibus illis punctis eiſdē gradib⁹ correſpōdebūt alterationes.ſequit̄ ergo cōcluſio cōcedenda. Et ad arg^m in oppoſitum negatur ꝯ̄ntia. ❡ Cap.2^m.

Nunc qualiter gradus ſūmus inducet̄ ꝑ ſubm vnifor^r diffor^e mediāte lati^{ne} altera^{tio} diffor^r diffor^i ſemꝑ ꝯſil'r extēſa in parte remiſſa ſicut in ꝑn⁹ in toto oibus alijs motib⁹ deductis eſt dōm. ❡ Pro quo eſt notādū q̄ qual'rcūq̧ difformiter extēdat̄ aliq̄ latitudo alterationis ꝯtinua in ſubō aliq̄ ſi foret punct⁹ aliq̄s certe velociter incipiēs moueri in extremo quieſcēte iſti⁹ alterationis certe velociter vel ifinite velociter vel ifinite tarde incipet acq̄rere de gradib⁹ iſtius lati^{nis}.⁊ h̄ eſt cuilibet manifeſtū:eo q̄ ſic mouēdo incipet acq̄rere de hꝫ gradib⁹. ❡ Et h̄ habito ponēde ſunt regule gn̄ales. ❡ Prima eſt hec. Si ſit aliqđ vnifor^r difforme terminatū ad ſūmū alteratū lati^{ne} difformiter difformi in extremo remiſſiori v̓ſus extre^m remiſſius ſubito:ita tm̄ q̄ aliqđ incipiens moueri in extremo iſtius remiſſiori certo g^u ifinite velociter vel certe velociter incipet acq̄rere de gradib⁹ iſtius lati^{nis} manēte alteratione iſta ꝯti^a ꝯſil'r extēſa per ptē ſm ſe totā remiſſam in ifinitū remittet̄ inductio gradus ſūmi:ſic itelligēdo q̄ ad oēm pūctum v̓ſus extre^m remiſſius ſit tardior alteratio q̄ȝ ad pūctū magis diſtātē ab eodē puncto. Sit enim.a.tale vnifor^r difforme terminatū ad ſumum alteratū mediāte hꝫ lati^{ne} difformiter difformi:vt ponit̄ in ꝯ̄ne. Et ſit.b.oīno ꝯſil'r alteratum lati^{ne} vnifor^r difformi terminata in extremo remiſſiori ad eundē g^m ad quē terminat̄ extre^m remiſſius alterationis extēſe per.a.ita q̄ ad oēm pūctū.b.ſit remiſſior alteratio q̄ȝ ad pūctū corrn̄dētē.a.⁊ maneat hꝫ latitudo extēſa ꝯtinue vnifor^r per ptē remiſſam.b.caſus p3. Nā extq̄ po^a aliqua certe velociter incipiēs moueri in extremo remiſſiori.a.certe velociter vel ifinite velociter acq̄ret de i^a lati^{ne} alterationis:cū ꝯtingat accipe aliquā lati^{nē} terminatā in extremo remiſſiori ad eundē g^m vnifor^r difformē:ita q̄ po^a ſic velociter mouēdo aliqual'r velociter acq̄rat de iſta lati^{ne} alterationis:⁊ minor poſſet eſſe extēſa per.b:ita q̄ in duplo tardius acq̄reret hꝫ mouēs de iſta lati^{ne} mediāte eodē g^u mot⁹:⁊ ſic in ifinitū:vt ꝯſtat.ḡ ꝯtingit accipe latitudinē vnifor^r difformē alterationis extēſā per.b.ita q̄ illđ mouēs tardius ꝯtinue mediāte eodē g^u mot⁹ acq̄rat de iſta latitudine alteratiōis in.b.q̄ȝ faceret in.a.mediāte eodē g^u mot⁹.⁊ h̄ nō eēt niſi in omni pte.b.foret minor lati^{do} alterationis q̄ȝ in parte corrn̄dēte.a.vt notū eſt.ḡ ſtat per.b.eē hꝫ alterationes vniformiter difformes:ita q̄ ad oēm pūctū iſtius ſit tardior alteratio q̄ȝ ad pūctum corrn̄dētē.a.p3 ḡ caſus. Ex quo ſic arguit̄.ad oēm pūctū.a.corrn̄debit alteratio ꝯti^r gradui inteſiori q̄ȝ ad pūctū corrn̄dētē.b.⁊ puncta equal'r diſtātia a ſūmo:ḡ ad oēm pūctū.a.citius deueniet gradus ſūmus q̄ȝ ad pūctū corrn̄dētē.b. Añs p3:⁊ ꝯ̄ntia ſic arguit̄.nā ſi nō ad oēm pūctū.a.⁊c̄. Sit i^c.c.g̃ra arg^u.ꝯtra.veloci⁹ incipit gradus ſūmus induci in.a.q̄ȝ in.b.q̄a alteratio ad oēm pūctū.a.eſt velocior ⁊c̄. Sit ḡ illđ inſtās.d.in quo gradus ſūmus deueniet ad.c.pūctū:tūc ſic arg^r. Cōtinue vſq̧ ad d.inſtās erit pars ſūma.a.maior pte ſūma.b.q̄a per datum ad oēm pūctū citra.c.citius deueniet g^r ſūmus q̄ȝ ad pūctū corrn̄dētē.b.⁊ per ꝯñs.c.pūctus vſq̧ ad.d.inſtās erit ꝓpinquior extremo inteſiori ptis remiſſe.a.q̄ȝ eſt pūct⁹ corrn̄dēs.b.extremo inteſiori ptis ſue remiſſe.cū ḡ ad oēm pūctū.a.velocior erit alteratio q̄ȝ tūc erit ad pūctū corrn̄dētē ptis remiſſe.b.ſequit̄ q̄ vſq̧ ad.d.inſtās velocior ꝯti^e erit alteratio ad.c.pūctū q̄ȝ ad punctū corrn̄dētē.b.⁊ illa pūcta in ꝑn⁹ equal'r diſtātia a ſūmo:ḡ citius deueniet g^r ſūmus ad.c.q̄ȝ ad pūctū corrn̄dētē in.b.⁊ ſic de oi alio pūcto.a.eſt arguen^m:ḡ ad oēȝ punctū itrin^{ſecū}.a.citi⁹ deueniet g^r ſūmus q̄ȝ ad pūctū corrn̄dētē.b.⁊ ꝑ ꝯñs tota ps remiſſa.a.ꝯti^e erit minor q̄ȝ tota pars remiſſa.b.⁊ q̄cito fiet tota ps remiſſa.a.ſūma ſic tota pars remiſſa.b.eo q̄ ad extrema remiſſiora eaȝ ptiū ſꝑ erunt altera^{tōes} eq̄les:vt ponit̄ in caſu.ḡ ab oi iſtāti iſti⁹ tp̄is vſq̧ in finē g^m remiſſiori corrn̄debit inductio g^r ſūmi in.a.q̄ȝ in.b.q̄a in oi tali pte toti⁹ tp̄is terminata ad finē fiet minor pars.a.ſūma q̄ȝ.b.ḡ cū ifi^m remiſſo ḡdui corrn̄debit iductio g^r ſūmi in.b.q̄ȝ in aliq̄ pte iſti⁹ tp̄is terminata ad finē iuxta ꝯ̄nē.17. Et ſeq̄t q̄ ifi^m remiſſo g^{ui} corrn̄debit inductio g^r ſūmi in.a.in aliq̄ tali pte.ḡ ſeq̄t ꝯcl̄o. Et ſic eſt vl'r verū q̄ vbicūq̧ aliqđ alterat̄ mediāte hꝫ lati^{ne} ꝯti^e diffor^r difformi:ita q̄ ſit poſſibile cape lati^{nē} vnifor^r difformē terīatā in extre^o remiſſiori ad eūdē g^m ad quē terminat̄ iſta lati^{do} diffor^r diffor^m in extremo ſuo remiſſiori:ita tm̄ q̄ ad oēm pūctū iſti⁹ vnifor^r diffor^{is} ſit g^r altera^{tiōis} remiſſior q̄ȝ ad pūctū corrn̄dētē alteri⁹ in ifi^m remittet̄ inductio g^r ſūmi in iſto qđ alterat̄ iſta lati^e diffor^r difformi. Qđ aūt ꝯtingit in tali caſu vbi altera^o eſt ſic diſpoſita:q̄ oē mouens in iſto certo g^u vndiq̧ certe velociter vel ifi^m velo^r acq̄ret de lati^e:vt ꝓdcm̄ eſt. Ubi vero hꝫ alteratio eſt ſic diffor^{is} q̄ mobile certo g^u in extre^o remiſſiori incipiēs moue^r ifi^{te} tarde acq̄reret de iſta lati^{ne} nulla certa reg^a pōt poni:eo q̄ ifinitis modis hꝫ variationes altera^{tiōis} ꝯtingit eē:tūc.n.nō pōt accipi aliq̄ lati^{do} altera^{tiōis} vnifor^r difformis ad cui⁹ quēlibet pūctum eēt gradus remiſſior ⁊c̄.ſi in extremo remiſſiori hꝫ latitudines ad eūdē g^m eēnt terminate:in omni enī vnifor^r difformi quātumcūq̧ modica eēt latitudo mobile in extremo eius certe velociter incipiēs mouere certe velo^r incipet acq̄rere de iſta latitudine vt ꝯſtat.ſeq̄t ḡ nō ad oēm pūctū iſti⁹ vnifor^r difformis alteratiōis eē g^m remiſſiorē q̄ȝ ad pūctū correſpōdētē iſti⁹ difformiter difformis. Qđ aūt i^a latitudo poſſit eē ita difformis:ita q̄ mobile certo ḡdu in extremo incipiēs moueri infinite tarde incipet acq̄rere de iſta latitudine:ſic p3. Diuidat̄ aliqđ corpus in ptes ꝓportionales ꝓportione dupla:⁊ diuidat̄ vna latitudo alteratiōis in ptes ꝓportionales ꝓpor^{ne} q̄druple:ita q̄ in q̄druplo maior latitudo extēſiue ſic in ꝑ^a pte ꝓportionali q̄ȝ in 2^a:⁊ in q̄druplo maior in 2^a q̄ȝ in 3^a:⁊ ſic in ifinitū:ita q̄ ptes minores terminent̄ ad extremū remiſſius iſti^o latitudinis alterationis:quo poſito po^a certe velociter incipiēs moueri in ꝑ^a pte ꝓportionali certe velociter incipet acq̄rere de iſta latitudine:⁊ in duplo tardi⁹ in 2^a pte ꝓportionali acq̄reret de iſta latitudine eodē gradu mot⁹:q̄a 2^a pars ꝓportionalis eſt in duplo minor q̄ȝ ꝑ^a habēs in q̄druplo minorē latitudinē q̄ȝ habet ꝑ^a:vt ponit̄ in caſu.⁊ in duplo tardi⁹ acq̄ret de latitudine in 3^a pte ꝓportionali q̄ȝ in 2^a ꝓpter eādē cauſam acq̄reret:ſȝ nūc eſt in duplo maior q̄ȝ tūc.ḡ ⁊c̄.⁊ ſic in ifinitū:ḡ ifinite tarde mediāte iſto g^u mot⁹ incipet acq̄rere de iſta latitudine in extremo remiſſiori toti⁹:qđ fuit ꝓbādū. ❡ Secūda regula ſi ſit aliqđ vnifor^r difforme terminatū ad ſūmū ⁊ alteratū latitudine difformiter difformi ꝯtinue extremo īteſiori alterationis v̓ſus extremū remiſſius ſubito:ita tm̄ q̄ mobile incipiēs mouere in extremo remiſſiori illi⁹ ſubti certo g^u finite velociter ſolū vel infinite velociter incipet deꝑdē de gradib⁹ illi⁹ lati^{nis} manēte illa alteratiōe ꝯti^e ꝯſil'r extēſa per ptē toti⁹ remiſſam ſic nunc per totū extēdit̄ infi^m itēdet̄ inductio gradus ſūmi in eodē ſubto. Sit ei^z.a.tale tūc ꝯtingit accipe lati^{nē} alterationis vnifor^r difformē terminatā in extremo itēſiori ad eūdeȝ g^m ad quē terminat̄ illa latitudo diffor^r difformis:ita tm̄ q̄ ſi extēderet̄ per.b.ꝯſil'e.a.oīno velocior erit alteratio ad

Prima reg^a huius cap. q̄ eſt.23. in ordine.

Secūda regula et eſt 24. in ordine.

tio ad oẽm punctũ.b.q̃ ad punctũ corrñdentẽ in.a.ex quo
aliq̃ latitudine vniform̃ difformi ad iſtũ gᵐ terminata aliq̃lr
velociter mediãte iſto gᵒ motᵒ inciperet decreſcere: ꝛ in duᵒ
tardiᵒ in aliq̃ alia per idem ſubm extẽſa: ꝛ ſic in infinitũ: ꝛ
vbicũqꝫ mediãte eq̃li motu tardius decreſceret iſta latitu
do ad oĩa puncta itrinſeca eſſet velocior alteratio. pꝫ ḡ ca
ſus: quo poſito ꝓbat̃: ꝙ ad oẽm punctũ.b. citius deueniet
gradus ſummᵒ q̃ ad punctũ corrñdentẽ.a.ſicut ecõtrario
mõ in caſu ꝓpīo arguebat̃: ꝛ per ꝯñs pars remiſſa.a.ꝯtĩ
erit maior pte remiſſa.b.ꝛ eq̃ccito fient iſta duo ſuᵃ: ḡ ab
oĩ inſtãti vſqꝫ ad finẽ tpis gradui inteſiori corrñdebit idu
ctio gradus ſũmi in.a.q̃ in.b.ḡ cũ infiᵒ gradui corrñdebit
inductio ḡdus ſũmi in.b.in aliq̃ pte tpis ad finẽ terminata:
ſeq̃t̃ ꝙ infinite intẽdet̃ iductio ḡdus ſũmi in.a. qd̃ fuit ꝓ
bãduꝫ.Et ſic vł̃r vbi eſt latitudo ſic difformis extremo in
tenſiori verſus extremũ remiſſius ſubiecti: ita tñ ꝙ ſit da
re latitudinẽ vniform̃ difformẽ terminatã in extremo intẽ
ſiori ad eundeꝫ gᵐ ad quẽ terminat̃ 1ª latitudo difformiter
difformis in extremo intẽſiori extẽſa vniform̃ per ſubm: ita
ꝙ ad oẽm punctũ iſtiᵒ ſubti ſit velocior alteratio q̃ ad pũ
ctũ corrñdentẽ iſtiᵒ diffor̃ difformis in ĩfinitũ intẽderet̃
inductio gᵒ ſũmi in eodeꝫ ſubto.qd̃ ꝯtingit qñ eſt alteratio
diffor̃ difformis vt ponitur in ꝯñe iſta. In alio aũt caſu fo
ret ĩpoſe vel difficile veritatẽ inuenire vel regulaꝫ gñaleꝫ
ponere ꝙ.ſ.mediãte aliquo gradu certo motᵒ infinite tar
da inciperet eſſe depditio illius latitudinis alteratiõis.i.gra
duũ eiuſdem latitudinis: ita ꝙ mobili gradus remiſſior ꝛ
Reſpõſe ter- remiſſior iſtiᵒ latitudinis corrñderet qd̃ eſt poſe in caſu ꝓ
tie ꝛ c.25. ꝓbationẽ in ꝓximo notabili factaꝫ. ¶ Per ſubiectũ vnĩ
in ordine. difforme terminatũ ad ſummũ mediãte latitudine altera
tionis ĩfinita extremo intẽſiori alterationis verſus extreᵐ
intẽſius ſubiecti ꝯtinue extãte ſine aliqua mutatiõe ex pte
ſubiecti gradus ſummᵒ vniform̃ inducet̃. ¶ Pro quo pͥmo
eſt notãduꝫ ꝙ latitudo infinita alterationis illo modo põt
acq̃ri ꝙ q̃tũ ad acq̃ſitionẽ quãtitatis ḡdui infinito corrñ
deat. Si.n.aliqd̃ alteratũ per aliqd̃ tp̃s aliq̃lr velociter ꝛ
per tp̃s ſubquadrupluꝫ in duplo velociᵒ: ꝛ per tp̃s ſubqua
drupluꝫ ad illud ſcd̃m tp̃s in duᵒ velociᵒ q̃ in iſto zᵒ tpe: ꝛ
ſic in infiᵐ: tũc alteratio eiᵒ in ĩfiᵐ intẽdit̃ vt notũ eſt: ꝛ q̃li
tas ſoluꝫ finite acq̃ret̃: q2 in zᵒ tpe dato in duplo minor la
titudo acq̃reret̃ q̃ in pͥmo. Si.n.zᵐ tp̃s eſſet ſubduplum
pͥciſe ad pͥmũ tanta latitudo acq̃reret̃ in iſto tpe ſicut in pͥ:
q2 alteratio tũc erit in duplo velocior q̃ in pͥmo: ſꝫ nũc in
zᵒ in duplo minor latitudo acq̃ret̃ q̃ tũc: q2 tp̃s nũc eſt in
duᵒ minᵒ q̃ tũc eſſet: ḡ in pͥmo tpe in duplo maior latitudo
acq̃reret̃ q̃ in zᵒ: ꝛ in zᵒ in duplo maior q̃ in 3ᵒ per ideꝫ ꝛ
ſic in infiᵐ: ḡ in toto tpe in duᵒ maior latitudo acq̃ret̃ q̃ in
oĩbus tpibᵒ poſt pͥᵐ.ꝯña tenet: ſicut de diuiſione in partes
ꝓporˡᵉˢ ꝓporᵉ dupla qd̃ totũ eſt dupluꝫ ad oẽs ptes reſi
duas a pͥma pte ꝓporˡⁱ: ſeq̃t̃ ḡ ꝙ tota latitudo acq̃ſita eſt
ſoluꝫ finita: ꝛ per ꝯñs iſta latitudo gradui ſoluꝫ finito cor
rñdebit: imo põt argui ꝙ oĩ ḡdui finito poterit corrñdere
vt ponat̃ ꝙ in zᵒ tpe ſit alteratio in ſexq̃altero velocior q̃
in pͥmo: ꝛ in 3ᵒ in ſexqꝫᵒ velocior q̃ in zᵒ: ꝛ ſic in infinitũ: ꝛ
ſeq̃t̃ ꝙ tũc gradui remiſſiori corrñdebit q̃ prius: ꝛ ſic põt
poni de oĩ ꝓportiõe qua in tanto velociᵒ alteret̃ in zᵒ tpe
q̃ in pͥmo: ꝛ ſic in ĩfiᵐ: in minorãdo ꝛ in maiorãdo ꝓporˡᵉˢ
illoꝝ tẽpoꝝ in ĩfiᵐ vt ꝯſtat: ꝛ ſic cuilibet gradui intrinſeco
poterit corrñdere: q2 nõ eſt aliq̃s ḡdus quãtũcũqꝫ remiſ
ſus quin per quãtũcũqꝫ magnũ tp̃s volueris põt iſta alte
ratio intẽdi anteq̃ ad iſtũ gᵐ puenietꝫ: ꝛ ſic per quãtũcũqꝫ
tp̃s volueris põt eſſe dicta alteratio in acq̃rẽdo totã latitu
dinẽ reſiduã: ꝛ ſic ſequit̃ ꝙ omni gradui intrinſeco poterit
2ᵒ vt acq̃rit̃ corrñdere. ¶ Nota ſcd̃o ꝙ iſto mõ poteſt latitu
do alterationis ĩfinita acquiri ꝙ gradui in duplo intẽſiori

quo ad acq̃ſitionẽ qualitatis corrñdeat q̃ eſt ḡdus a quo
ĩcipit intẽdi vt ſi ſit alteratio nũc vt 3ᵒ ꝛ diuidat̃ tp̃s aliqd̃
in ptes ꝓporˡᵉˢ ꝓportiõe quadrupla: in quaꝝ pͥᵃ intendat̃
alteratio a tribᵒ vſqꝫ ad q̃nqꝫ vniform̃: ita ꝙ corrñdeat gra
dui vt quattuor: ꝛ in zᵒ illoꝝ intẽdat̃ vniform̃ a quinqꝫ vſqꝫ
ad.z1.ita ꝙ tũc corrñdeat gradui in duplo intẽſiori q̃ in
pͥmo tpe vt cõſtat eſſe poſe: ꝛ ſic in ĩfiᵐ: ita ꝙ ſemꝑ in pte
poſteriori corrñdeat gradui in duplo intẽſiori q̃ in parte
imediate pͥcedẽte vt cõſtat eſſe poſe: eo ꝙ in pte poſterio
ri põt vniform̃ acq̃rere latitudinẽ: cuius gradus mediᵒ erit
duplus ad graduꝫ mediũ latitudinis in pte imediate pͥce
dente acquirẽde: tunc ſic arguit̃.pͥmũ illoꝝ tẽpoꝝ eſt qua
druplum ad zᵐ: ꝛ zᵐ eſt quadrupluꝫ ad 3ᵐ: ꝛ ſic in ĩfinitũ:
ergo aggregatũ ex oĩbus illis tẽporibᵒ erit quadrupluꝫ ad
oĩa preter pͥmũ. Si.n.aliqua in eadeꝫ ꝓportiõe adinuiceꝫ
cõparent̃ qualis eſt ꝓportio vnius ad ſui corrñdens: talis
eſt ꝓportio aggregati ex oĩbᵒ cõparatis ad oĩa ad que põt
fieri ſiue ſit cõparatio vt tangit̃ 30ᵃ ꝯñe de motu locali: ꝛ
ſi ſic ſequit̃ ꝙ ſi mediãte gradu vt 3ᵒ poſſet acq̃ri quattuor
in toto tpe qd̃ ſuppono eſſe verum: ſequit̃ ꝙ mediãte iſto
gradu in pͥmo iſtoꝝ tempoꝝ põt acquiri 3ᵘ: ꝛ mediãte iſta
intẽſione in pͥmo tpe acq̃ret̃ in ſexqꝫᵒ plus pͥciſe q̃ mediã
te gradu vt 3ᵘ: q2 in iſto tpe corrñdebit gradui vt quattuor
ergo in pͥmo illoꝝ tẽpoꝝ acq̃ret̃ quattuor mediãte iſta al
teratione ſic intẽſa: ꝛ in pͥmo iſtoꝝ tẽpoꝝ tãtũ acq̃ret ſicut
in oĩbus tẽporibᵒ reſiduis: ḡ in toto tpe acq̃ret octo per al
terationẽ iſtã intẽſaꝫ in ĩfiᵐ: ꝛ mediãte gradu a quo ĩcipit
intẽdi põt quattuor acq̃ri in toto tpe per poſitũ: ergo in duᵒ
intẽſiori gradui corrñdebit iſta latitudo ſic acquiſita q̃ ĩ
pͥncipio corrñdet.ꝯña pꝫ: ꝛ añs arguit̃.ſ. ꝙ in pͥmo tẽpore
tantũ acq̃ret ſicut in oĩbus ptibᵒ reſiduis.nam in pͥmo tpe
in duplo maior latitudo acq̃ret̃ q̃ in ſcd̃o: q2 alteratio eiᵒ
in iſto tpe corrñdebit gradui in duplo remiſſior q̃ in ſcd̃o
per caſuꝫ.ꝛ pͥmũ tp̃s eſt quadrupluꝫ ad zᵐ: ḡ in iſto in duᵒ
plus acq̃ret q̃ in zᵒ. Si.n.pͥmũ tp̃s eſſet pͥciſe duplũ ad zᵐ
tantũ acq̃ret̃ in pͥmo tpe ſicut in zᵒ vt ꝯſtat: ſed nũc in duᵒ
plus acq̃ret in pͥmo tpe q̃ nũc: ḡ nũc in duplo maior latitu
do q̃litatis acq̃ret̃ in pͥmo tpe q̃ in zᵒ: ꝛ in zᵒ maior in du
plo q̃ in 3ᵒ: ꝛ ſic in ĩfiᵐ per id argᵐ: ḡ acquiſitũ in pͥmo tpe
erit equale acq̃ſito in oĩbus partibᵒ reſiduis ſicut eſt de cõ
tinuo diuiſo in ptes ꝓporˡᵉˢ ꝓportiõe dupla.Or pͥma pars
ꝓportionalis oĩbᵒ aliꝭ ptibᵒ eſt equalis: ſequit̃ ergo illud
ꝓbãdum.Et nũc ad ꝯclõnẽ arguit̃. Sit eniꝫ.a.vniform̃ dif
forme terminatũ ad ſuᵐ per qd̃ extẽdat̃ gradus alteratio
nis vniformis quo vnĩ per totũ iducet̃ ḡdus ſummus in
duabᵒ horis: ꝛ ponat̃ ꝙ in extremo remiſſiori intẽdat̃ al
teratio in ĩfiᵐ in hora ſic ꝙ q̃tũ ad acq̃ſitionẽ latitudinis
corrñdeat gradui in duplo intenſiori q̃ nũc: ꝛ ſic de oĩbus
aliꝭ punctis ꝙ ꝓpor̃ ſicut minᵒ diſtat a ſũmo gradu eis
corrñdendo ſic in minori tpe intẽdat̃ alteratio ad illa pun
cta in ĩfiᵐ: ꝛ reſpectu cuiuſlibꝫ puncti corrñdeat alteratio
gradui in duplo intẽſiori q̃ nũc. Et ſeq̃t̃ ad oẽm punctum
gᵐ ſummũ in duᵒ velociᵒ induci q̃ ſi nõ intẽderet̃ intẽſio
q2 intẽſio ad oẽm punctũ gradui in duplo intẽſiori corrñ
debit q̃ nũc. Cũ ḡ deducta intẽſione alterationis in dua
bus horis vnĩ iducet̃ gradus ſummᵒ ꝑ totũ.a.ergo nũc in
vna hora vniform̃ per totũ iducet̃ iſta forma: ꝛ hoc ſatis ꝓ
bat ꝯñeꝫ. ¶ Ideo ꝯ iſtã arguit̃ ſic. Quiſcũqꝫ ḡdus itẽſio Ꝯ tertiã
nis ſignet̃: gradus intẽſior iſto, alicui pũcto intrĩſeco ĩcipit ꝯñem
corrñdere: ḡ cũ mediante aliquo gᵒ aliqualr̃ velor̃ inciperet
induci ꝛ in duplo velociᵒ mediãte alio: ꝛ ſic in ĩfiᵐ: ſeq̃t̃ ꝙ
mediãte iſta latitudĩe in ĩfiᵐ velor̃ ĩcipit gᵒ ſummᵒ iduci:
ergo nõ ꝯtinue vniform̃ inducet̃. vel ſi vnĩ: tunc ſeq̃t̃ iſta ꝯ
ꝙ gᵒ ſũmᵒ ꝯtiᵉ in ĩfiᵐ velor̃ iducet̃ per.a. ¶ Pro iſto dicit̃
ꝙ nulli puncto ĩtrinſeco incipit gradus in duplo intenſior

correſpondere q̄ eſt gradus extenſus per totū.a. q2 ad omnez
punctū intrinſecū.a. icipit eſſe ſoluz finita intēſio intēſio-
nis: ꝛ per ↄ̄ñs ad nullū punctū intrinſecū ſubito intēdetur
2ª intēſio ad du^m. ❡ Scd̄o ſic. Si ad extremū remiſſius cō-
tinue foret equevelox intēſio ſicut ad aliquē pūctū intrin-
ſecū: tūc vnifor^r inducet̄ g^s ſumm^s per totū: vel ſi per totū
foret intēſio vniformis ꝛ iductio ēt vniformis: ḡ ſi diffor-
mis foret intēſio erit ēt difformis iductio. ❡ Negat̄ ↄ̄ña:
q2 ad punctū ꝛc. ↄ̄tinue erit velocior intēſio ꝛ velocior: ſed
ſi ad oēm pūctū ↄ̄tinue maneret alteratio vniformis quo
3° ad tp̄s: tunc ↄ̄ña foret bona. ❡ Tertio ſic. Sit.b.ↄ̄ſile.a.p
oīa per qd̄ extēdat̄ g^s duplus ad g^m extēſuz per.a.cui.ſ.al-
teratio.a. put acgrit̄ correſpōdebit: ꝛ ſequit̄ q̄ per.b. vnifor^r
inducet̄ g^s ſumm^s in hora: ꝛ per ↄ̄ñs nō vnifor^r in.a. ↄ̄ña
tenet. Naz capiat̄ aliqd̄ inſtās intrīſecū hore: tūc per eq̄lez
partē erit alteratio in.a. ꝛ in.b. per poſituz ꝛ infi^m velocior
alteratio tūc erit ad aliquē punctū in.a. q̄ ad punctuz ſibi
correſpōdentē in.b. eo q̄ per ptē alterandaz in.a. tunc exten-
det̄ alteratio infinita: ꝛ per ptez alterandam in.b. ſoluz g^s
vniformis: ḡ nō per illas ptes in.a. ꝛ in.b. equecito erit g^s
ſumm^s iduct^s. ❡ Pro iſto di q̄ ad oēm punctū nō ſūmū
in.b. ↄ̄tinue erit aliqua q̄litas intēſior q̄ ad punctū corre-
ſpondentem in.a. vt arguet̄ poſt: ꝛ ideo lꝫ tardior erit intenſior
4° equecito tñ per vtrūqꝫ inducet̄ g^s ſumm^s. ❡ Itē in codez
caſu arguit̄ hec ↄ̄clo q̄.a. ↄ̄tinue veloci^s intēdet̄ q̄.b. ꝛ nō
veloci^s. Et etiā q̄.a. ↄ̄tinue velocius intēdet̄ q̄.b. ꝛ nūc eſt
Prima cō- eque intēſuz cū.b. ꝛ ↄ̄ti^c erit remiſſius.b. ❡ Et hec ſic ar^r.
cluſio que Alteratio in.a. incipit correſpōdere alteratiōi in.b. eo q̄ eque-
vi ſequi ex velox icipit eſſe inductio g^s ſummi in.a. ꝛ in.b. ꝛ alteratio
tertia re°. in.a. ↄ̄tinue erit velocior ꝛ velocior: q2 quocūqꝫ inſtāti da-
to illa intēſione in minori tp̄e q̄ in hora inducet̄ g^s ſumm^s
per vnū vnifor^r difforme ſicut eſt.a. cū ↄ̄ſili intēſione intē-
ſionis vt appꝫ: q2 extremū remiſſius citi^s fieret ſummū:
eo q̄ latitudo ſm̄ extremū remiſſius cōtinue terminabit̄
ad g^m intēſiorē ꝛ intēſiorē: ḡ totalis velocitas alteratōis in
a. ↄ̄tinue erit velocior ꝛ velocior: ꝛ intēſio in.b. ↄ̄tinue erit
vniformis: ḡ intēſio.a. ↄ̄tinue erit velocior ꝛ velocior: ꝛ in-
tenſio in.b. ↄ̄tinue erit vniformis: ḡ intēſio.a. ↄ̄tinue erit ve-
locior intēſione.b. ꝛ per eq̄lez ptē: ḡ ↄ̄tinue intēdet̄.a. velo-
cius q̄.b. Et q̄ nō ar^r ſic.a. eſt nūc eque intēſuz cū.b. ꝛ con-
tinue erit remiſſius.b. ḡ nō ↄ̄tinue veloci^s intēdet̄.a. q̄.b.
Añs pꝫ: q2 ad oēm pūctū nō hñtez g^m ſummū correſpōdebit
ↄ̄tinue g^s remiſſior in.a. q̄ in.b. q2 ſi aliqū ad aliquez pun-
ctuz in.a. nō ſummū erit gradus caliditatis eque intēſus ſicut
ad punctū correſpōdentez in.b. vel tūc erit remiſſior intenſio
in.a. ad iſtuz punctū q̄ ad illuz in.b. vel eque intēſa vel ve-
locior. Si eque intēſa vel velocior ꝛ ↄ̄tinue poſt erit intē-
ſio intēſionis ad illū punctū in.a. ꝛ ad iſtū punctū ſibi cor-
reſpōdentē in.b. ↄ̄tinue erit intēſio vniformis: ḡ citi^s inducet̄
gradus ſumm^s ad illuz punctū in.a. q̄ ad illum punctū in
b. ergo nō vnifor^r ꝛ equeuc^r iducet̄ g^s ſumm^s in.a. ꝛ in.b.
Si remiſſior intēſio tūc erit ad illuz punctū in.a. q̄ in.b. ꝛ
ↄ̄tinue vſqꝫ ad idez inſtās erit remiſſior intēſio in.a. q̄ tūc
erit: ꝛ in.b. ↄ̄tinue manebit intēſio vniformis: cum ḡ in p̄n^o
ad illa puncta.a. ꝛ.b. ſint gradus eque intēſi: ſeq̄t̄ q̄ in iſto
inſtāti dato ad iſtū pūctū in.a. erit gradus remiſſior q̄ ad
punctū correſpōdentē in.b. qd̄ fuit pbādū: ḡ pꝫ p̄^a cōcluſio.
2ª & ❡ Scd̄a ↄ̄clo pꝫ: q2 p̄us arguta eſt p̄^a pars: ꝛ in h̄ vltimo
3ª argumēto pbat̄ 2^a pars: ḡ tota. ❡ Itē in caſu iſto ſeq̄t̄ q̄
intēſio.a. icipit eſſe equevelox cū intēſione in.b. ꝛ nō eque-
velox cū intēſione in.b. ſed remiſſior. P^a pꝫ. nā intēſio in.a.
nō incipit correſpōdere gradui remiſſiori q̄ eſt gradus extē-
ſus per.b. q2 mediāte nullo gradu remiſſiori icipiet g̃dus
ſumm^s equeuc^r induci in.a. ſicut in.b. ſicut pꝫ. nec intēſiori:
q2 mediāte oī intenſiori velocius inciperet q̄ n^c incipit. pꝫ ḡ

p̄ma pars iſtius ↄ̄nis: ꝛ 2^a pars ar^r: q2 nulli puncto intrin-
ſeco in.a. icipit gradus ita intenſus correſpōdere ſicut puncto
correſpōdenti in.b. vt argutū eſt in ↄ̄̃miſſione ad p̄^m arg^m cōtra
ↄ̄nem p̄ncipalez. ❡ Pro iſtis ↄ̄nib^s negat̄ q̄.a. equeuelo^r
incipit intēdi ſicut.b. vt pꝫ per tertiā ptem vltime ↄ̄nis: q2
ſoluz intēdit̄ per maiorationē exceſſus caliditatis ſupra fri-
giditatē: cū ḡ ↄ̄tinue erit poſt hoc fridiтas intenſior in.a. q̄
in.b. per p̄argutā ꝛ caliditas equalis: ſequit̄ exceſſuz cali-
ditatis in.a. ſupra fridiтatē eē miorē exceſſu caliditatis.b.
ſupra ſuā fridiтatē: ꝛ per ↄ̄ñs intēſio minor: ꝛ ſi ſic quo ad
inductionē g^s ſūmi nō equevelox icipit eē intēſio in.a. ſicut
in.b. Et qñ ar^r intēſionē in.a. fore intēſiorē quo ad iductio-
nem g^s ſūmi q̄ n^c incipit eē ↄ̄cedit̄: q2 in vno ↄ̄ſilr̄ diſpoſi-
to cū pte alterāda in.b. ꝛ eq̄li veloci^s quocūqꝫ inſtāti dato
inciperet g^s ſumm^s induci mediāte iſta intēſione q̄ nūc ici-
pit vel ēt in vno ↄ̄ſilr̄ diſpoſito ſicut nūc eſt.a. q2 īfinite ve-
lociter iciperet induci in quolꝫ tali: eo q̄ quilꝫ g̃dus tunc ali-
cui pūcto intrīſeco in pte alterāda.a. correſpōdebit: nā ps alte-
randa in.a. cōtinue erit ita difformis: q2 mediāte quocūqꝫ
g^s finito infinite tarde iciperet g^s ſumm^s iduci: ꝛ ſic nō ſeq̄t̄
a. ↄ̄ti^c intēdi veloci^s q̄.b. ſꝫ per certū tp̄s terminatū ad hoc
inſtās tardi^s: ꝛ per certū tp̄s terminatū ad finē hore veloci^s
vt ſatis pꝫ inuēti: ꝛ ſic nō ſequit̄ aliqua illaꝝ cōcluſionuꝫ.
❡ Per ſubm̄ vnifor^r calidū mediāte latitudīe alteratio- Quarta regula q̄ eſt.26.in ordine.
nis īfinita gradus ſumm^s vnifor^r inducet̄. Sit eniꝫ.a. cali-
duꝫ vniforme per qd̄ extēdatur gradus vt prius mediāte
quo totuꝫ fiat ſummū in duabus horis ꝛ intenſio extremi
intēdatur in infinituꝫ in hora: ꝛ ſic difformiter intendatur
q̄ gradui in duplo intēſiori correſpondeat quo ad acquiſi-
tionē latitudinis q̄ nūc: ꝛ gradus correſpōdens pūcto medio
īrēdat̄ in īfi^m in medietate hore ꝛ correſpōdeat g̃dui in qua-
druplo intēſiori q̄ nūc: ꝛ ſic ꝓportionabilr̄ ſicut pūcta mi-
nus ſunt diſtātia extre^o: ita in miori tp̄e īrēdat̄ alteratio in
infi^m ꝛ g̃dui intēſiori correſpōdeat: ꝛ ſeq̄t̄ q̄ in hora inducet̄
g^s ſumm^s vni^r per totū.a. q2 ꝓpor^r ſicut pūcta min^s diſtāt
ab extre^o ſic intēſio ad illa puncta g̃dui intēſiori correſpōde-
bit ꝛ oīa eq̄lr̄ diſtāt a ſummo: ḡ ꝛc. Uel capiat̄.b. ↄ̄ſimile
ipſi.a. ꝛ ad oēm punctū.b. ſit intēſio vniformis.ſ. talis cui
correſpōdebit intēſio ad punctū correſpōdentē in.a. cū ḡ vnifor^r
inducet̄ in.b. ḡ per.a. vnifor^r: ↄ̄clo eſt cōcedenda. ❡ Item Quinta regula ꝛ eſt 27.in ordine.
quātūcūqꝫ diffor^c ſit aliqd̄ corp^s per idez mediāte latitu-
dine alterationis in infi^m poſſet gradus ſumm^s iduci vni-
formiter. Sit.a. vnū difforme ꝛ ad oēm punctū extendat̄
talis gradus ſic q̄ ꝓportionabilr̄ ſicut puncta min^s diſtāt
ab vno extremo ſic eis citius g̃dus ſumm^s deueniet vt ſa-
tis eſt poſſe. ponat̄ ergo q̄ ad oēm punctū.b. ↄ̄ſilr̄ diſpoſi-
tum cū.a. extēdat̄ gradus ſubduplus ad graduꝫ extenſuz
ad punctū correſpōdentē in.a. ꝛ in codez tp̄e in quo g^s ſūmus
deueniet ad aliquē punctū.a. intēdat̄ alteratio ad correſpōdē-
tez in.b. in infi^m ꝛ correſpōdeat gradui in du^o intēſiori q̄ nūc.
cū ergo per.a. vnifor^r: ergo per.b. ❡ Oīa illa que ſūt eq̄lia Sexta regula ſed 28.in ordine.
ꝛ ↄ̄ſilr̄ calida ꝛ mediāte latitudine alterationis īfinita infi-
nite tarde ↄ̄tinue inducet̄ gradus ſumm^s per aliqd̄ illoꝝ.
Capiant̄ infinita eq̄lia ꝛ eque intēſa cū.a. ꝛ per qd̄lꝫ illoꝝ
extēdat̄ alteratio vniformis ꝛ ſit gradus alterationis extē-
ſus per.a. aliqualr̄ intēſus: ꝛ gradus extēſus per p̄^m iſtoꝝ
infinitoꝝ in duplo remiſſior: ꝛ per 2^m in q̄druplo remiſ-
ſior ꝛ ſic in infinitū: ꝛ quilibet illoꝝ gradnū ꝓportionabilr̄
ſicut eſt remiſſior g^s extēſo per.a. ſic in tp̄e maiori intēdat̄
in infinitū q̄ erit tempus in quo intēdet̄ gradus extenſus
per.a. in infinitū ꝛ gradui remiſſiori correſpōdeat q̄ erit gra-
dus cui correſpōdebit gradus extēſus per.a. qui in infi^m intē-
detur quo ad acquiſitionē latitudinis quilibet.ſ. ſubduplo
vt ſic acgrit̄ intelligēdo ſic: q̄ ſi gradus extēſus per.a. intē-
dat̄ ad extremū remiſſi^s.a. in hora in infi^m q̄ in p̄mo illoꝝ

infinitoꝝ intēdať ad eiꝰ extremū remiſſius gradus exten‑ſus per illud ꝑmū infim in duabꝰ horis: ⁊ eodeꝫ mō dico ꝙ ſi alteratio ad mediū punctū in.a.intendať in infim in me‑dietate hore ꝙ ad punctū corrñdentē in ꝑmo illoꝝ inten‑dať in infinitū in hora: ⁊ ſic de aliis punctis corrñdentibꝰ in illis ⁊ in quolꝫ illo infinitoꝝ: ⁊ ſequiť ꝙ per.a. induceť vniforr in aliquo tpe poſito ꝙ nūc ſit vniforr difforme ter‑minatū ad ſummū ⁊ per ꝑm infinitoꝝ in tpe duplo ꝓciſe: ⁊ per 2m in tpe q̄druplo: ⁊ ſic in infim: ergo infinite tarde induceť gradus ſummꝰ in aliq̄ iſtoꝝ: ergo ꝯclō eſt ꝯcedēda. ¶ Per ſubm vniforr difforme terminatū ad ſummū mediāte al‑teratiōe ad nō gm terminata per ptē remiſſaꝫ ꝯtinue extēſa extremo remiſſiori alteratiōis.ſ.nō gradus verſus extrem intēſius ſubiecti gradus ſummꝰ ꝯtinue vnir induceť. ¶ Cōtra iſtā ꝯneꝫ arr ſic. Tardiꝰ icipit gradus ſummꝰ iduci q̄ȝ me‑diāte aliquo gm finito induceretur: ſꝫ mediāte aliquo gradu aliqualr velor incipet induci ⁊ mediante go alio in duꝰ tar‑dius ⁊ ſic in infim: ergo infinite tarde icipit gradus ſummꝰ in‑duci: ⁊ per ꝯñs nō ꝯtinue vnir induceť. ꝯña ⁊ maior patent: ⁊ maior arr ſic. Quocūqꝫ gradu dato go remiſſior icipit eē ad certū punctū: ex quo icipit alterari latitudine terminata ad nō gm: ⁊ per ꝯñs per certā ptē icipit eē alteratio tardior iſto gm dato quātūcūqꝫ remiſſus fuerit: ⁊ per ꝯñs tardiꝰ in‑cipit gradus ſummꝰ induci q̄ȝ ſi alteraretur illo gradu dato quiſcūqꝫ fuerit: ſequiť ergo ꝯneꝫ eſſe falſaꝫ. ¶ Scdo ſi ad pun‑ctuꝫ mediū eēt ꝯtinue equevelox alteratio ſicut ad extrem remiſſius: tūc in duplo citius deueniret gradus ſummꝰ ad punctū mediū q̄ȝ ad extremū remiſſius vt appet: eo ꝙ in duplo ꝓpinquior erit punctꝰ mediꝰ gradui ſummo q̄ȝ ex‑tremo remiſſiori: ſed nūc tardior cōtinue erit alteratio ad punctū mediū q̄ȝ ad extremū remiſſius: eo ꝙ nō go altera‑tionis ſemꝑ erit verſus extremū intēſius: ergo nō in duplo ve‑locius deueniet go ſummꝰ ad punctū mem q̄ȝ extremū re‑miſſius: ⁊ per ꝯñs nō vnifor iduceť go ſummꝰ. ¶ Tertio ſi ſic. Sit id ſubm.a. ⁊ ſit.b. ꝯſiſe.a. alteratuꝫ in vno gradu vniformi mediāte quo fiet ſūmū.ſ.ſubduplo ad gm a quo incipit alteratio in.a.remitti ad nō gm vnifor in eodeꝫ tpe in quo.a. fiet ſummū ſicut notū eſt eē poſſibile eo ꝙ mediante aliquo gm in aliquo tpe fiet ſummuꝫ: ⁊ mer alio tpe duplo fiet ꝓciſe ſummū: ⁊ ſic in infim: ⁊ mediāte aliquo tpe duplo minori ⁊ ſic in infim. quo poſito arguiť ſic. b. ⁊.a. ſunt oino ſimilia qualitatiue ⁊ quātitatiue: ⁊ per aliquā ptē.a. ꝯtinue erit tardior alteratio q̄ȝ per ptē corrñdentē.b. eo ꝙ.a. ꝯtinue alterabiť latitudine terminata ad nō gm: ⁊.b. vno go vnifor‑mi vt poſitū eſt: ergo velociꝰ induceť aliqn go ſummꝰ in.b. q̄ȝ in.a. ⁊ in.b. induceť vnifor in tpe quo.a. fiet ſummū: ergo non vnifor induceť per.a. ſequiť ergo ꝯneꝫ eē falſaꝫ. ¶ Ad ptē affirmatiuā arguiť. Ponēdo ꝙ.a.b. ſint duo vnifor diffor‑mia terminata ad ſummū ⁊ alteretur.a. vno gradu vniformi in quo pōt fieri ſummuꝫ in hora ⁊ alteretur.b. gm ſubdupꝰ ad gm quo alterať.a. ⁊ ponať ꝙ ad oēm punctū.a. remittatur alteratio vnifor ad nō gm in tpe iſto in quo gradus ſūmꝰ ad punctū corrñdenteꝫ.b. deueniet. quo poſito arguiť ſic. Alteratio ad oēm punctū.a. eidē gradui corrñdet ſicut al‑teratio ad punctū corrñdentē.b. eo ꝙ alteratio ad omneꝫ punctū.b. eſt in gradu medio latitudis per quā vnifor re‑mitteť alteratio ad oēm pūctū.a. vt notū eſt: ⁊ oīs latitudo vnifor deꝑdita ſuo gradui medio corrñdet: ⁊ ad oēm pū‑ctuꝫ in.a. per eq̄le tpꝰ durabit alteratio ſicut ad punctum corrñdentē in.b. vt ponit caſus: ergo ad oēm punctū.a. eq̄cito deueniet gradus ſummꝰ ſicut ad punctū corrñdentē in.b. cuꝫ ergo per.b. vnifor induceť go ſummꝰ: q: vno go vniformi alterabiť: ſequiť etiā ꝙ per.a. go ſummꝰ induceť vnifor. Et ꝙ.a. ꝯtinue alterabiť latitudine terminata ad nō gm ꝓꝫ: q: imediate poſt hoc ꝯtinue erit go ſummꝰ ad aliquē punctū

Septime regule: ſed 29ª in ordine.

3 regam

2°

3°

Probat regula.

b. ⁊ q̄ȝcito go ſummus deueniet ad aliquem punctū.b. erit alteratio remiſſa ad nō gm ad punctū corrñdenteꝫ.a. ergo ſequiť ꝙ ꝯtinue terminabiť alteratio.a. ad nō gm totū. Añs ſatis manifeſtū ꝓꝫ: ſequiť ergo ꝯneꝫ eſſe verā. ¶ Ideo dī cōcedendo ꝯnē: ⁊ ad ꝑm argm in oppom negať ꝙ quocūqꝫ gradu dato iaꝫ incipit remiſſior eſſe ad certū punctū intrin‑ſecū: q: ad nulluꝫ punctū intrinſecū.a. icipit eſſe alteratio ita remiſſa ſicut eſt gradus extēſus per.b. q: ex quo ad oēꝫ punctū erit vniformis remiſſio alterationis: ſequitur ꝙ ad oēm punctū intrinſecū ſolum finite velor incipit alteratio remitti: ⁊ ad oēm pūctū.a. eſt in ꝑnꝰ alterationis go duplus ad gm extēſuꝫ per.b. ergo nulli puncto intrinſeco.a. incipit cor‑rñdere go alteratiōis ita remiſſus ſicut eſt per.b. q̄uis iaꝫ incipiat alteratio in ipſo ad nō gm terminari: imo iam icipit tota latitudo citra extremū intēſius extēdi in infim in mo‑dica quātitate: q: poſt hoc in ifim modica q̄ntitate extēdeť. ⁊ nulluꝫ erit inſtās poſt hoc qn inter hoc inſtās pñs ⁊ illd in infim modica q̄ntitate extēdeť. qd ꝓbatur: q: nulluꝫ erit inſtās ⁊c. quin ⁊c. in aliq̄ q̄ntitate extēdeť ⁊ in duꝰ minori: ⁊ ſic in infim. qd ꝓbať: q: nulluꝫ ⁊c. qn ⁊c. ad oēm punctuꝫ eius in nulla ꝓpom erit remiſſior alteratio q̄ȝ nūc eſt: nec eſt icōueniēs de futuro: de pñti tñ eſt ipoſſe ꝙ.ſ. in aliquo ſubto extēdať latitudo ad nō gm terminata: ⁊ tñ ꝙ nō quo‑cūqꝫ go dato gradus remiſſior certo pūcto intrinſeco cor‑rñdeat. ¶ Ideo arr ſic. Quocūqꝫ inſtanti dato erit hec ꝓ‑poſitio vera. per ptē remiſſam.a. extēdeť latitudo altera‑tionis ad nō gm terminata: ergo in oī inſtāti tardius inducetur go ſummꝰ q̄ȝ ſi nūc aliquo gm finito intēderetur: ⁊ ſi ſic pro oī inſtāti infinite tarde iduceť go ſummꝰ: ⁊ per ꝯñs nō ꝯtinue vnifor. ¶ Pro iſto dī ꝙ pro oī inſtanti erit pars.a. ſm ſe totā remiſſa ita difformis ꝙ mediāte oī go finito īfinite ve‑lociter iduceť go ſummꝰ pro tali inſtāti: q: mediāte illa la‑titudine ad nō gm terminata certe velor ꝓtūc iduceť gdus ſummꝰ: ⁊ ſic nō ꝓcedit id argm. ¶ Ad 2m argm negať ꝯñam: q: lꝫ ad oīa pūcta verſus extremū intēſius ꝯtinue erit tar‑dior alteratio q̄ȝ ad punctū remiſſiorē qn.ſ. ad illa erit al‑terationis remiſſio ad oēm tñ punctuꝫ remitteť alteratio: ita ꝙ cuilibet pūcto iſtius tota alteratio ⁊ ab hoc ergo eidem gradui corrñdebit: q: gradui quo alterabiť.b. ſi tñ ad oēꝫ punctū maneret ꝯtinue alteratio vniformis optīe valeret argm ſicut planius dī vbi tāgiť de motu locali. ¶ Ad 3m argm dē admittēdo caſuꝫ ⁊ dī ꝙ lꝫ ꝯtinue pro oī inſtanti erit tardior alteratio ad aliquē punctū.a. q̄ȝ ad punctū cor‑rñdentē.b. ꝑus tñ erit velocior alteratio ad oēꝫ punctū.a. q̄ȝ ad punctū corrñdentem.b. rōne cuiꝰ oīa puncta.a. tunc erūt gradui ſummo ꝓpinquiora: vt ꝯſtat per caſuꝫ q̄ȝ pun‑cta corrñdentia.b. ⁊ ideo nō ſequiť ꝙ velocius aliqn idu‑cetur gradus ſummꝰ in.b. q̄ȝ in.a. nunq̄ȝ enīꝫ poſt hoc erūt iſta ꝯſimilr diſpoſita: ⁊ ſic nō ꝓcedit argm: q: nō eſt incō‑ueniēs vt ꝓdiciť ꝙ nūc icipiat ad extremū.a. remitti alte‑ratio ad nō gm: ita ꝙ imediate poſt alterabiť latitudie ter‑minata ad nō gm: ⁊ tamē ad nullum punctū incipit eē gra‑dus ſubduplus ad gradūꝫ nūc per eū extēſuꝫ: nec gradus in aliqua certa ꝓportione minor iſto gradu dato de pñti tamē eſt ipoſſibile vt dictū eſt. ¶ Si ſit aliqd vniformi‑ter difforme terminatū ad ſummū alteratū per totuꝫ vno gradu vniformi: equi gdus manēs vniformis quo ad ſub‑iectū intēdať vnifor vel diffor ſeu remittať eque ꝓpor‑tionabilr intēdiť iductio go ſummi cum illa alteratiōe vel remitteť nulla aliunde facta variatiōe in iſto ſubo. Sit.a. tale.a. alteratū vno gradu per totum qui gradus intēdať manēs vniformis quo ad ſubiectū nulla alia mutatione facta in iſto ſubiecto. Et arr ꝙ ꝓpor ſicut alteratio erit ve‑locior: ita erit iductio go ſūmi intēſior: q: ſi nō detur vnū in‑ſtans.ſ.c. in quo alteratio erit in.f. ꝓpom maior q̄ȝ nūc eſt

Ad arm 3ia

Octaua regula ⁊ 30ª in ordine.

quecūqȝ ſit talis ꝓportio: ⁊ ſit.b.tota ps ei⁹ ꝑtūc remiſſi: nūc ar' ſic.ꝑpor' ſi.ut.b.eſt min⁹ toto.a.in pn°.ita hȝ mino/ rez latitudinem extēſiue:ex quo totū eſt vnifor' diffōrme ⁊ alte/ rabit᷑ ꝯtinue vno g° vniformi:g° per tertiā regulaȝ totū.b. in.c.inſtāti hēbit eq̄lē latitudinem extēſiue ſicut in pn° hȝ idez b.ergo ꝑpor' ſicut nūc erit min⁹ q̄ȝ nūc eſt.a. ita tunc hēbit latitudinem extēſiue minorē ad ſummū terminatā q̄ȝ nūc hȝ.a. ⁊ per ꝯn̄s ſi tūc alteraret᷑ eodem g° quo in pn° totū.a.alte/ rat᷑:tunc eque velociter induceret᷑ gradus ſumm⁹ in.b.ſicut nūc in.a. ꝯn̄a tenet per ꝯnez quintā.ſed nūc in.f. ꝑportione veloci⁹ indu/ cet᷑ gradus ſumm⁹ in.b.q̄ȝ ſi alteraret᷑ eodez gradu quo in pn° iuxta ꝯnez nonā:eo q̄ ſua alteratio in.c.inſtāti erit in.f. ꝑportione velocior q̄ȝ eſſet ſi alteraret᷑ gradu quo in pn°:g° in c.inſtāti in.f. ꝑportione veloci⁹ inducet᷑ gradus ſumm⁹ in.b. q̄ȝ nūc incipit in.a.⁊ eque velociter inducet᷑ in.a. ſicut in.b. q̄a.b. eſt ps.a.g° in.c.inſtanti in.f. ꝑportione veloci⁹ inducet᷑ gradus ſumm⁹ in.a.q̄ȝ nūc incipit:⁊ ſic pro oī inſtāti eſt arguēdum q̄ ꝑpor' ſicut ſua alteratio erit velocior q̄ȝ in pn°: ita tunc veloci⁹ īducet᷑ gradus ſumm⁹ q̄ȝ in pn°: ſeq̄t᷑ ergo q̄ eque ꝑpor' intendet᷑ inductio gradus ſummi ſicut alteratio qd̄ fuit ꝓbādum.℄ Ex quo infert᷑ q̄ ſi alteratio hō vniformis vnifor' intēderet᷑:vnifor' intēderet᷑ īductio g° ſumm̄:⁊ ſi difformiter intēdat᷑ alteratio:inductio gradus ſummi dif/ formiter intendet᷑.Si.n.inductio correſpōdeat alterationi in gradu cū eque ꝓportionabilr intēderet᷑ inductio cū illa alteratiōe:pȝ q̄ ſemꝑ erūt īductio ⁊ alteratio eq̄les: ⁊ per ꝯn̄s eque' ītēdent᷑. Si g° alteratio vnifor' intēderet᷑: ſeq̄t᷑ q̄ inductio vnifor' intēderet᷑:⁊ ſi alteratio difformiter:in/ ductio difformiter. Si īductio ſit minor alteratiōe ⁊ eque ꝓportionabilr intēderet᷑ inductio cū alteratione: g° in qua ꝓportiōe eſt minor/in ea ꝑportione tardius intēdet᷑. Si ergo alteratio vniformiter intenderet᷑ ⁊ inductio: ⁊ ſi alteratio difformiter ⁊ inductio.Conſilr arguit᷑: ſi ponat᷑ q̄ īductio ſit maior q̄ȝ alteratio:q̄r tūc ſicut eſt maior:ita veloci⁹ intē/ deret᷑ ⁊c̄.Silr oīo arguit᷑:vbi alteratio manēs vniformis quo ad ſubiectū remittet᷑:q̄r.ſ.eque ꝓportionabilr mino/ rat᷑ inductio gradus cū illa alteratione ſubiecto aliūde nō moto:⁊ ex vniformi remiſſiōe alteratiōis quo ad tp̄s:ſeq̄t᷑ vniformis remiſſio īductiōis g° ſūmi:⁊ ex difformi diffor/ mis inductio vt ꝑus patuit.

Cor^m ſe/quens ex p^ma par/te regule.

℄ Caplm 3^m.

Dictis quibuſdā regulis cōib⁹ de inductiōe gradus ſummi alteratione extenſa in principio per totū ſubiectum: reſtat dicere qualr etiā ſi ſit ab extremo intēſiori verſus extremuȝ remiſſius ꝑticularis acq̄ſitio alterationis. Pro quo ſit hec regl'a.℄ Si ſit aliqd̄ vnifor' difforme terminatū ad ſūmū a cuius extremo intēſiori incipit eſſe ꝑticularis generatio alterationis per ptē ante partē:⁊ hoc vniformi ꝓgreſſione vnī⁹ gradus alterationis vniformis nō variati ad omnez punctū manēte quouſqȝ gradus ſumm⁹ ad illaȝ deuene/ rit:ita q̄ extēdat᷑ in parte maiori quouſqȝ ad extremū re/ miſſius deuenerit gradus ſumm⁹ per idem ſubm̄ vnifor' inducet᷑. Sit eniȝ.a.tale vnifor' difforme in cui⁹ extremo intenſiori incipiat eſſe hō acq̄ſitio ꝑticularis vt ponitur in ꝯclōne:⁊ arguit᷑ q̄ in.a.gradus ſumm⁹ vnifor' inducetur: ꝓportionabilr enim ſicut puncta ſunt ꝓpinquiora extremo intenſiori: ita ad iſta citius deueniet gradus ſumm⁹: ⁊ per ꝯn̄s vnifor' īducet᷑.ꝯn̄a ſatis pȝ:⁊ an̄s arguit᷑: q̄r ſi nō ſint c.d.duo puncta iſtius.a.⁊ ponat᷑ q̄.c. punctus in.f. ꝑportione plus diſtet ab extremo intēſiori q̄ȝ.d.punct⁹: tūc arguit᷑ q̄ in.f.ꝑportione citius deueniet g° ſumm⁹ ad.d.pūctuȝ q̄ȝ ad.c. q̄r ex quo alteratio vnifor' ꝓgredie᷑ in.a.⁊ punct⁹.d.eſt in f. ꝓportiōe ꝓpinquior extremo intēſiori a quo incipit eſſe ꝓgreſſio alterationis q̄ȝ.c.punct⁹: ſeq̄t᷑ q̄ in.f.ꝑportione citi⁹ deueniet alteratio ad.d.punctū q̄ȝ ad.c. ergo tp̄e quod erit

Prima re/gula hu⁹ capitli que ē 3^a in or/dine.

anteq̄ȝ alteratio deueniat ad.c.punctū erit in.f. ꝓportione maius tp̄e ꝓcedente alteratione ad.d.punctū: ⁊ tēpus per qd̄ durabit alteratio ad.c. punctū erit in.f.ꝓportione ma/ ius tēpore durationis alterationis ad.d.punctuȝ:q̄r.c.in.f. ꝓportione plus diſtat a ſummo q̄ȝ.d. ⁊ alteratio eſt eq̄lis: ⁊ habito gradu ſummo ceſſabit alteratio:g° totū tp̄s cōpo ſitū ex tp̄e ꝓcedente alteratione ad.c.punctū: ⁊ tp̄e per qd̄ ibi erit alteratio:erit in.f.ꝓportiōe maius tp̄e cōpoſito ex tēpore ꝓcedente alteratione ad.d. punctū ⁊ tp̄e per qd̄ ibi durabit alteratio.ꝯn̄a pȝ per illam regulaȝ.Qualis ꝓpor/ tio aliquoȝ duoȝ diuiſoȝ ⁊c̄.talis erit ꝓportio eorūdem cōiunctoȝ. cū g° in finib⁹ illoȝ tempoȝ erit gradus ſūm⁹ ad.c.d.puncta:g° in.f.ꝓportiōe citi⁹ deueniet gradus ſum/ mus ad.d.q̄ȝ ad.c. ⁊ ita de oībus alijs punctis ipſius.a.eſt arguēdum.ſ.q̄ ſicut puncta ſunt ꝓpinquiora extremo in/ tenſiori:ita ad illa citius deueniet gradus ſumm⁹: ⁊ p ꝯn̄s vniformiter īducet᷑ per.a.ergo ſeq̄t᷑ ꝯcluſio.℄ Cōtra quā arguit᷑. Ponat᷑ q̄.a.b.ſint duo vnifor' difformia terminata ad ſummū oīo ſīlia taȝ qualitatiue q̄ȝ quātitatiue:⁊ ſit per b.gradus alterationis mediāte quo ipſuȝ poſſit fieri ſum/ muȝ in hora.Et q̄ ab extremo intēſiori.a.ꝑtibilr acq̄ratur iſte gradus alterationis:ita q̄ per.a.inducat᷑ iſta alteratio vnifor' in hora.Et cū alteratio deuenerit ad aliquē pūctuȝ maneat ibi quouſqȝ ad iſtum deuenerit gradus ſummus: tunc arguit᷑ q̄ in.a.nō inducet᷑ gradus vniformiter: quia eque velociter īcipit gradus ſumm⁹ induci in.a. ſicut in.b. ⁊ in.b. vnifor' inducet᷑: ⁊ aliq̄n tardius inducetur gradus ſumm⁹ in.a.q̄ȝ in.b.ergo nō ꝯtinue vnifor' inducetur in.a. ꝯn̄a pȝ de ſe: ⁊ maior arguit᷑ ſic:q̄r.a.b.ſunt oīno ſimilia ⁊ tanta incipit eſſe alteratio ad extremū intēſius.a. ſicut ad extremū intēſius.b. g° eque velociter incipit g° ſumm⁹ induci in a.ſicut in.b.ꝯn̄a arguit᷑:q̄r ſi forent infinita oīno ſīlia.a.b. quoȝ primū inciperet alterari per medietatē eodem gradu quo.b.per totū:⁊ 2^m per quartā intenſiſſimā eodez gradu: ⁊ 3^m per octauā eius intenſiſſimā:⁊ ſic in infi^m:tūc per qōlȝ illoȝ inciperet gradus ſumm⁹ eque velociter induci ſicut in.b. per ſcd̄aȝ ꝯnem:q̄r alteratio que eſt in medietate remiſſiori.b. nihil faciet ad inductionē g° ſummi in medietate ei⁹ inten ſiori:nec etiā tres quarte remiſſiores alterate aliq̄d faciūt ad inductionē gradus ſummi in quarta eius intenſiſſima: ⁊ ſic in infinitū:g° in qōlȝ illoȝ eque velociter incipit g° ſummus induci ſicut ſi per totū inciperet iſto gradu alterari:⁊ ēt tunc in qōlȝ illoȝ īcipit g° ſumm⁹ eque velociter induci ſicut in.b.igit᷑ nūc in qōlȝ illoȝ incipit g° ſumm⁹ eque' induci ſicut in.b. ⁊ in nulla ꝓportiōe tardius in.a.q̄ȝ in aliqd̄ illoȝ:q̄r p infi/ nitā modicā partē incipit aliqd̄ illoȝ alterari ſicut.a.ergo in nulla ꝓportione tardi⁹ incipit gradus ſumm⁹ induci in a.q̄ȝ in.b.⁊ aliq̄n in certa ꝓportiōe tardi⁹ inducet᷑ in.a.q̄ȝ in.b.ergo nō ꝯtinue vnifor' inducet᷑ in.a.b.Et q̄ aliq̄n tar dius inducet᷑ in.a.pȝ:q̄r ad oēm punctū.b.citius deueniet gradus ſumm⁹ q̄ȝ ad punctū correſpōdentē.a. qd̄ nō eēt niſi aliq̄n tardi⁹ inducet᷑ in.a.q̄ȝ in.b.ꝯn̄a ⁊ minor patēt:⁊ ma/ ior arguit᷑ ſic.ad oēm punctum.b.citi⁹ erit alteratio q̄ȝ ad punctū correſpōdentē.a. q̄r ad oēm punctum.b. tunc incipit eſſe alteratio:⁊ magnū tp̄s erit anteq̄ȝ ad aliquē punctum certū.a.intrinſecū deueniet alteratio vt ponit᷑ in caſu ⁊ in oī puncto.a.erit ꝑcaſe eque velox alteratio ſicut ad punctū correſpōdentez.b.vt ponit᷑ in caſu:ergo cū oīs punct⁹.a. eq̄lr diſtet a ſummo ſicut punctus correſpōdens.b.pȝ q̄ ad omnē punctū.b.citi⁹ deueniet gradus ſumm⁹ q̄ȝ ad punctū cor/ reſpōdentē.a.g° ſequit᷑ q̄ nō vnifor' inducet᷑ per.a.g° ꝯclō falſa.

3 reg^la

℄ Secūdo arguit᷑ ſic. Si ad oīa puncta.a. eque cito eſſet alteratio:tūc ſicut puncta extre⁹ intēſiori ſunt ꝓpinquiora ita ad iſta g° ſumm⁹ citius deueniret: eo q̄ alteratio eſſet eq̄lis ad oīa illa puncta:g° tunc vnī' inducet᷑ gradus ſum/

2°

mus.cuꝫ ͧ ad puncta ꝓpinquora extremo intenſiori citius
erit alteratio ꝙ̃ ad puncta remotiora ⁊ eq̃lis:ſeq̃t ꝙ nunc
nõ vnif' inducet gradus ſumm⁹:ſ; in multo maiori ꝓpor/
tione citi⁹ deueniet gradus ſumm⁹ ad pũcta ꝓpinquora ꝙ̃
ſit ꝓportio per quã iſta illi extremo ſunt ꝓpinquora: ⁊ per
3 ꝯñs nõ vnif' inducet. ¶ Tertio ar' ſic. Data ꝯ̃ne ſequit̃ ꝙ
p̃ª ꝯ̃ꝫ equeue' incipit gradus ſumm⁹ induci in.a. ſicut in.b. ⁊ nõ
reglaꝫ equeue'. ¶ Silr hic ſequeret̃ ꝙ equeue' ꝯti' induceretur
2° gradus ſumm⁹ in.a.ſicut in.b. ⁊ tñ ꝯtinue in duplo tardius
3° inducet in.a.ꝙ̃ in.b. ¶ Silr ſeq̃t ꝙ in qõl; illoꝝ equeue'
incipit gradus ſumm⁹ iduci ſicut in.b. ⁊ in.b. ⁊ in quodlibꝫ
illoꝝ ꝯtinue vnifor' inducet ⁊ tñ infinite tarde ꝯtinue in/
4° ducet g̃dus ſumm⁹ in aliq̃õ illoꝝ. ¶ Jteꝫ ſeq̃t ꝙ oĩa iſta
ſunt ⁊ erũt ꝯtinue ꝯſilia quãtitatiue: ⁊ in qõl; ꝯti' equeue'
iducet gradus ſumm⁹ ſicut in.b. ⁊ per.b. deueniet in hora
gradus ſummus ⁊ in nullo tpe finito per qõl; iſtoꝝ deue/
niet gradus ſumm⁹ deductis ꝯdenſatiõe ⁊ rarefactione ⁊
aliys. ¶ Pñia ⁊ 2ª ꝯcludunt ꝯ̃dictionẽ manifeſte ⁊ 3ª ſilr
q: ſi equeue' incipit gradus ſumm⁹ induci in qõlibꝫ iſtoꝝ
ſicut in.b. ⁊ in.b. ⁊ in qõl; vnifor':ͧ equeue' ꝯtinue iducet
gradus ſumm⁹ in qõl; ſicut in.b. ⁊ infinite tarde ꝯtinue in
aliq̃õ:ͧ infinite tarde ꝯtinue in.b. ꝯñs eſt ĩpoſ'e: q: tũc per
nihil inducet gradus. ¶ Cõſilr ar' cõtra quartã:q: exquo
in oĩa equeue' inducet ſicut in.b. ⁊ ſunt ⁊ ꝯtinue erũt eq̃lia
quãtitatiue ⁊ nõ erit ꝯdẽſatio nec rarefactio: ͧ equecito ꝑ
oĩa inducet gradus ſummus ſicut in.b. ͧ ſi per.b. in hora:
ſequit̃ ꝙ per qõcũq; aliud in hora. ¶ Prima tñ ꝯ̃ ſic ar'.
nam pª pars arguta eſt p̃us⁊ 2ª ſic ar'. Aliqñ tardi⁹ indu/
cet in.a.ꝙ̃ in.b. ⁊ in vtraq; ꝯtinue iducet vnifor': ͧ tardi⁹
incipit in.a.ꝙ̃ in.b. ꝯñia pꝫ:⁊ mioꝛ ꝓarguit̃: ⁊ maioꝛ pꝫ per
p̃mã ꝯ̃nem tertij capl'i.ſ.per p̃mã ꝯ̃ quã nũc arg':ͧ ſeq̃t ꝯ̃.
¶ Sc̃da ꝯcl'o ẽt pꝫ in eodeꝫ caſu: q: per ꝓarguta equeue'
incipit gradus ſummus induci in.a.ſicut in.b. ⁊ cõtinue in
vtriq; inducet vnifor':ͧ equeue' inducet in.a.ſicut in.b.
ergo hĩ pª ps ꝯ̃nis. 2ª ſic arguit̃. Ad oẽm punctũ.b. eq̃cito
deueniet gradus ſumm⁹ ſicut ad punctũ corrñdentẽ in.a.
deueniet alteratio:⁊ ad oẽm pũctũ.a.per eq̃le tp̃s durabit
alteratio ſicut ad punctũ corrñdentẽ in.b. ͧ tp̃s cõpoſitũ
ex tpe p̃cedẽte alterationẽ.a.ad punctũ quẽcũq; ſignatũ ⁊
eodeꝫ tpe per qõ ad illuꝫ eundeꝫ durabit alteratio erit du
pluꝫ ad tp̃s in quo inducet g' ſumm⁹ ad punctũ corrñden
tem in.b. q: oẽ cõpoſitũ ex duob⁹ eq̃lib⁹ eſt duᵐ ad vnuꝫ
iſtoꝝ per ſe. Maioꝛ ar'.ſ.ꝙ ad oẽm pũctũ.b. equecito de/
ueniet g' ſumm⁹ ſicut ad punctũ corrñdentẽ in.a.deueniet
alteratio:q: per.b.in illa hora vni' ꝓgrediet̃ g' ſummus:⁊
ſic ẽt erit de alteratiõe in.a.q: ipſa in hora vni' ꝓgrediet̃
in.a. vt ponit̃ in caſu. Et ꝙ ad oẽm pũctũ.a.per equale tp̃s
durabit alteratio ſicut ad punctũ corrñdentem in.b.pꝫ:q:
oĩa pũcta corrñdentia.a.b.eq̃lr diſtant a ſummo:⁊ altera/
tio p̃ciſe erit eq̃lis in.a. ⁊.b.cũ ͧ ceſſante alteratiõe ad pũ/
ctuꝫ aliquẽ.a.erit ibi gradus ſumm⁹ vt ponit caſus:⁊ ſic ẽt
de.b.pꝫ ergo ꝙ in duplo citius deueniet gradus ſummus
ad oẽm punctũ.b.ꝙ̃ ad punctũ corrñdentẽ in.a. ⁊ per ꝯñs
in duplo citi⁹ inducet gradus ſumm⁹ per.b.ꝙ̃ per.a. Silr
hoc argᵐ ꝓbat ꝙ vnifor' ꝯtinue inducet g' ſumm⁹ in.a.q:
in.b. vnifor' inducet ⁊ in duplo tardi⁹ ꝯtinue in.a. ꝙ̃ in.b.
ergo in.a. vnifor'. ¶ Jtẽ arguit̃ ꝙ in.a.in duplo tardi⁹ cõ/
tinue inducet g' ſumm⁹ ꝙ̃ in.b.q: finis illi⁹ hore erit añꝙ̃
ad extremũ remiſſi⁹.a.deueniret alteratio: ⁊ mediãte iſta
alteratiõe põt extremũ remiſſius p̃ciſe in hora fieri ſũmũ
vt pꝫ per caſuꝫ:q: per aliã horã ibi erit alteratio: ſeq̃t ͧ ꝙ
due hore erũt anteꝙ̃.a.per totũ erit ſũmũ:tunc arguit̃ ſic.
Jn hora fiet.b.ſummũ:⁊ p̃ciſe in duab⁹ horis fiet.a.ſũmũ.
ergo in duplo citi⁹ fiet.b.ſummũ ꝙ̃.a. ⁊ per vtrũq; vnifor'
inducet g' ſumm⁹ vt in ꝯ̃ne ꝓxĩa eſt argutũ: ͧ in du⁹ tar/
dius ꝯtinue inducet in.a.ꝙ̃.in.b.eo ꝙ ꝯtinue ſunt ⁊ erunt
eq̃lia q̃titatiue: ͧ pꝫ iſta 2ª ꝯcl'o. ¶ Tertia ꝯcl'o arg' ſic.
Ponat̃ ꝙ in du⁹ tardi⁹ generet̃ alteratio in p̃mo ĩfinitoꝝ
ꝙ̃ in.a.quoꝝ qõl; ſit eq̃le q̃titatiue cũ.a. ⁊.b. ⁊ ẽt q̃litatiue
⁊ in du⁹ tardius in 2° ꝙ̃ in p̃mo:⁊ ſic in infiᵐ: ita ꝙ in qõl;
iſtoꝝ infinitoꝝ vnifor' ꝓgrediat̃ alteratio terminata ſicut
eſt iſta que ꝓgredit̃ in.a. ⁊ in qõl; poſterius in du⁹ maiori
tpe p̃ciſe ꝙ̃ in illud qõ ime' p̃cedit:quo poſito ſeq̃t ꝙ per
qõl; iſtoꝝ vnifor' inducet g' ſumm⁹ per argᵐ factũ de.a.
q: ꝓpoꝛ' ſicut puncta ſunt ꝓpinquora extremo intẽſiori ſic
ad illa citius deueniet alteratio:⁊ per min⁹ tp̃s durabit:q:
fiat illud argᵐ de quol; illoꝝ ſicut fit de.c.d. punctis in.a.
⁊ in quodl; equeue' incipit induci ſicut inducet in.b. vt p̃
arguit̃ de.b. Et ꝙ ĩfinite tarde ꝯtinue iducet gradus ſum/
mus in aliq̃õ illoꝝ pꝫ: q: infinite tarde ꝯtinue inducet al/
teratio in aliq̃õ iſtoꝝ: ⁊ tardius ꝯtinue inducet g' ſumm⁹
ꝙ̃ alteratio:ͧ infinite tarde cõtinue inducet gradus ſum/
mus in aliq̃õ iſtoꝝ. Maioꝛ pꝫ ꝑ caſuꝫ: q: ponit̃ ꝙ in du⁹
tardius progrediat̃ alteratio in 2ᵐ ꝙ̃ in pᵐ:⁊ ſic deinceps.
Minoꝛ etiã pꝫ: q: ad omnẽ punctũ cõtinue erit alteratio
anteꝙ̃ ad illum deueniet gradus ſumm⁹:exquo quodlibꝫ
nũc diſtat a ſummo:ͧ in infinitũ tarde cõtinue inducetur
gradus ſumm⁹ in aliq̃õ iſtoꝝ:qõ fuit ꝓbãdũ: ſeq̃t ͧ ꝯcl'o.
¶ Quarta cõcluſio arguit̃ in eodem caſu:q: ſuppoſito ꝙ
in quodl; ꝙ nõ ſit cõdenſatio nec rarefactio:q: illud non
foret ad ꝓpoſitũ:q: ꝙ in qõl; iſtoꝝ infinitoꝝ equeueloci/
ter cõtinue inducet gradus ſumm⁹ ſicut in.b.arguit̃:q: in
quodl; iſtoꝝ equeuelociter incipit induci ſicut in.b. ⁊ in
quodl; vniformiter inducet: ergo in quodl; iſtoꝝ ꝯtinue
equeuelociter inducet ſicut in.b. ꝯñia nota eſt: ⁊ añs eſt
p̃cargutũ. Et ꝙ ĩfinitũ magnum tp̃s ⁊c̃. arguit̃:q: infinite
tarde cõtinue inducet in aliq̃õ iſtoꝝ vt argutuꝫ eſt in ꝯ̃ne
ꝓxima:⁊ oĩa ſunt equalia quãtitatiue ⁊ qualitatiue cuꝫ.b.
ergo per infinitũ tp̃s inducet in aliq̃õ illoꝝ. ¶ Jtem due
hore erunt anteꝙ̃ ad extremuꝫ remiſſius p̃mi deueniet
alteratio:⁊ quatuoꝛ hore erunt anteꝙ̃ ad extremũ remiſ/
ſius ſecũdi deueniet alteratio:⁊ ſic in infinitũ: ⁊ poſtꝙ̃ ad
cuiuſlibet coꝝ extremũ remiſſius deuenerit alteratio erit
hora anteꝙ̃ ipſuꝫ fiet ſummũ:eo ꝙ nõ fiet ſummũ anteꝙ̃
extremũ remiſſius erit ſummũ:ergo tres hore erũt anteꝙ̃
primũ illoꝝ erit ſummũ:⁊ quinq; anteꝙ̃ 2ᵐ: ⁊ ſic in infiᵐ:
ergo per infinitũ magnũ tp̃s inducet gradus ſummus in
aliq̃õ illoꝝ qõ fuit ꝓbanduꝫ. ¶ Pro iſtis dicit̃ ꝯcedendo Ad arᵐ
ꝯ̃nem 31ᵃᵐ. Et ad primũ argumẽtũ in oppoſitũ admittat̃ ꝯ̃ reglaꝫ
caſus:⁊ negat̃ ꝙ equeue' incipit gradus ſumm⁹ induci in
a.ſicut in.b.imo in duplo tardius vt argumẽtũ factũ in 2°
ꝯcl'one cõtra iſtã ꝯcl'oneꝫ 31ᵃᵐ ꝓbat. Et ad argumẽtuꝫ qñ
arguit̃ ſic.illa ſunt cõſimilr diſpoſita ⁊ ad extrema inten/
ſiora incipit eſſe eq̃lis alteratio:ergo equeue' incipit ⁊c̃. ne/
gatur ꝯñia:q: l; illa nũc ſint ꝯſimilr diſpoſita: tñ plus con/
tinue poſt hoc diſtabit aliq̃s punct⁹.a.a ſummo ꝙ̃ punct⁹
corrñdens in.b.eo ꝙ ad oẽm punctũ.b.equecito deueniet
gradus ſumm⁹ ſicut ad punctũ corrñdentẽ.a. deueniet al/
teratio vt notũ eſt per argᵐ factũ in ꝯcl'one illa cõtra iſtaꝫ
ꝯcl'onem 31ᵃᵐ. Et ſi ſic cum alteratio ad aliquẽ punctuꝫ.a.
deuenerit ad iſtum:qualitas per certã latitudinẽ diſtabit
a ſummo:⁊ tunc ad punctũ corrñdentẽ.b.erit g' ſummus:⁊
⁊ per ꝯñs infinite plus tũc diſtabit aliq̃s punct⁹ a ſummo
a.ꝙ̃ punctus corrñdens.b. ⁊ ideo l; alteratio erit equeue/
loꝝ ad punctũ.a.ſicut ad punctũ corrñdenteꝫ.b.nõ ſequit̃
ꝙ equeue' inducet gradus ſumm⁹ in.a.ſicut in.b. Et tunc
qñ arguit̃ cõtra de illis infinitis admittitur caſus ⁊ cõce/
ditur ꝙ in quodl; iſtoꝝ equeue' incipit gradus ſummus
induci ſicut in.b. ⁊ negat̃ ꝙ in nulla ꝓpoꝛᵒᵉ tardius in.a.ꝙ̃
in aliq̃õ iſtoꝝ:per infinitũ modicuꝫ tamẽ tp̃s durabit in/

ductio in aliqͦ iſtoꝝ niſi vbi ponaꝛ ꝓgreſſio alterationis in illis:qꝛ per pᵐ durabit inductio per medietatē hoꝛe: ga ſolū inducetꝛ gradus ſumm⁹ per medietatē cᵗ⁹: ⁊ ſic ꝑ zᵐ durabit ſolū per quartā hoꝛe:⁊ ſic in infiᵐ. Si tñ ponatur ꝓgreſſio alterationis in illis ſicut erit in.a. in qͦbꝫ iſtoꝝ remittetꝛ inductio poſtqͦ gradus ſumm⁹ fuerit inductus per partem in ꝑncipio alteratā vt pꝫ: quia quilꝫ punct⁹ vltra partē talem per plus ↄtinue diſtabit a ſummo in qͦlibet iſtoꝝ ꝙ punct⁹ correſpondens.b.eo ꝙ nūc ad oēm punctū.b. incipit eſſe alteratio ⁊ nō ad oēm punctū iſtoꝝ: ⁊ ſi ſic:ſubito fiet remiſſio inductionis gradus ſūmi in aliqͦ iſtoꝝ: ⁊ ſic nō ꝓcedit argᵐ. ¶ Ad ſcōm vͦ argᵐ negaꝛ vltima ↄña qñ arguitꝛ ꝙ nunc nō vnifoꝛ inducet:qꝛ ab oēm eius punctū nūc tardius deueniet gradus ꝙ nūc:ſicut ad extreᵐ remiſſius:⁊ ideo bene ſequitꝛ ꝙ tardius inducetur gradus ſummus in.a.ꝙ tunc inducetur: ex quo tamen non ſequitur ꝙ nō vniformiter inducetur. ¶ Et per ꝑdicta ſoluuntur oēs ↄcluſiones reducte ↄ ↄnez iſtam. Omnia enim in eoꝝ ꝓbationib⁹ depēdent ſuꝑ hoc ꝙ in.a.⁊ in qͦbꝫ iſtorū equeue incipit gradus ſumm⁹ induci ſicut in.b. qͦd tñ eſt negatū.imo vt ꝑdicitꝛ in duplo tardius incipit in.a.ꝙ in b.⁊ in ꝑmū iſtoꝝ īfinitoꝝ in duplo tardius ꝙ in.a. ⁊ ſic in infinitū:⁊ ſic nō ꝓcedūt argumēta. ¶ Aliter tñ arguitur ↄ ↄnez iſtā 31ᵃᵐ. Nā vſqꝫ in finē hoꝛe nulla qualitas acqritꝛ ad extremū remiſſius.a.qꝛ tunc ꝑmo ad id extremū deueniet alteratio:ꝰ tota pars remiſſa.a. terminabitꝛ ↄtinue in iſta hoꝛa ad ſummū ⁊ ad gᵐ ad quē nunc totū terminatꝛ in extremo remiſſioꝛi ⁊ ↄtinue erit eq̄lis alteratio: ꝰ tardi⁹ ⁊ tardius inducetꝛ gradus ſumm⁹.ↄña ſic arguitꝛ. Signetꝛ.n. inſtās mediū iſtius hoꝛe gr̄a exēpli:⁊ ſeqꝛ ꝙ tunc erit vna quarta a ſumma ꝑciſe:qꝛ per ꝑarguta in du⁹ veloci⁹ ꝓgredietꝛ alteratio ꝙ gͣdus ſumm⁹: ⁊ in fine iſti⁹ hoꝛe erit vna ei⁹ medietas ſumma per idē argᵐ:ꝰ in fine habebit vna medietas tantā latitudinē ſicut in inſtāti eius medio habebunt tres quarte:⁊ eodē gᵘ tunc alterabitꝛ.a.ſicut in inſtāti medio:ꝰ tunc tardius inducetꝛ gradus ſumm⁹ in.a.ꝙ in inſtāti medio.ↄña tenet per octauā ↄnez vt apparet. Nec obſtat ꝙ in fine hoꝛe erit alteratio per totā iſtā medietatem:⁊ in inſtāti meᵒ nō erit alteratio niſi per vnā illaꝝ triū quartaꝝ:qꝛ lꝫ in inſtāti medio eēt alteratio per totā partē eius remiſſā:nō tñ tunc velocius inducetꝛ gradus ſumm⁹ in tp̄m ꝙ nūc in inſtāti meᵒ in tp̄m inducetꝛ:eo ꝙ alteratio in iſta pᵗe remiſſa.a.nō terminata ad ſummū nihil ad inductionē gradus ſummi ꝑficiet:vel faciet ſicut in ꝑmo argᵒ de illis infinitis eſt argūtū:ꝰ ſequitꝛ ꝙ in fine hoꝛe tardius inducetꝛ gradus ſumm⁹ ꝙ in inſtāti medio eiuſdē hoꝛe.⁊ ſic arguēdū eſt ꝙ ſemꝑ in inſtāti poſteriori tardius inducetꝛ gradus ſumm⁹ ꝙ in ꝑoꝛi:eo ꝙ ſemꝑ pꝫ poſterioꝛ erit minoꝛ pᵗe prioꝛi remiſſa eq̄li latitudine diſpoſita: ꝰ ↄcl̄o eſt falſa. ¶ Pro iſto dīc ꝙ vnifoꝛ inducetur ⁊ ad argᵐ qñ arguitꝛ ꝙ in fine hoꝛe tardi⁹ inducetꝛ gradus ſumm⁹ ꝙ in inſtāti medio.negatꝛ ↄña:qꝛ lꝫ in inſtāti medio erit tota pꝫ eius remiſſa maioꝛ ꝙ in fine:⁊ eq̄li latitudine diſpoſita in inſtāti medio:tñ nō erit tota pꝫ remiſſa eius vnifoꝛ difformis ſicut eſt in fine: qͦd ſic declaratꝛ. In inſtāti medio erit alteratio ad punctū mediū ⁊ ſolū per ſcd̄ā quartā totius vocādo ꝑmā eius 4ᵃᵐ quartā inteſiſſimā ſicut pꝫ ex ꝑdictis:ꝰ vna ei⁹ medietas.ſ.remiſſioꝛ tunc hēbit eq̄lē latᵗᵉᵐ ſicut in ꝑncipio.ſ.medietatē totius latitudinis:⁊ tota pars remiſſa tunc habebit totā iſtam latitudinē vt ꝑdicitꝛ:ergo quarta eius tunc erit diſpoſita medietate iſtius latitudis:⁊ per ↄñs tota pars remiſſa nō erit vnifoꝛ difformis:⁊ iſta alia ↄcl̄o allegata loquitꝛ vbi vtrūqꝫ ſubiectū eſt vnifoꝛ difforme.ſ.equali latitudine:⁊ ita nō ꝓcedit argumentū. ¶ Sꝫ ſi queraꝛ:qualꝛ ergo equeue inducetꝛ gᵘ ſumm⁹ in fine hoꝛe ſicut in inſtāti medio:dī ꝙ in inſtanti medio erit vna eius quarta vnifoꝛ difformis terminata ad ſummū cōtinens medietatē toti⁹ latitudinis ⁊ in fine hoꝛe erit vna medietas eius vnifoꝛ difformis tota latitudine terminata ad ſummū:⁊ in inſtāti medio per totā iſtā quartā ſolū erit alteratio equeueloꝝ ſicut in fine erit per iſtā medietatē:ꝰ per gnīā ↄnez tunc equeue inducetꝛ gradus ſumm⁹ in medietatē iſtā ſicut in inſtāti medio per iſtā quartā:ſicut enī medietas eſt dupla ad quartā: ita latitudo qua medietas tunc erit vnifoꝛ difformis erit dupla ad latitudinē extenſam per illā quartā. Añs pꝫ per ꝑdicta ꝓpter hoc ꝙ tam medietas.a.in fine ꝙ etiā quarta eius in inſtāti meᵒ erunt vnifoꝛ difformes:qꝛ ſemꝑ qñ generatꝛ gradus alterationis vnifoꝛ per ſubiectū aliqͦ manens in tota latitudine acquiſita erit vnifoꝛ difformis ſicut in poſterū arguetꝛ:vbi tangetꝛ qualꝛ ſubiectū pōt vnifoꝛ difform per partialē generationē alterationis ⁊c̄.cū ergo latitudo in.a.medietate ⁊ etiā latitudo in iſta quarta ſint vnifoꝛ difformes: quarū extremis intenſioꝛib⁹ addentꝛ extrema intēſioꝛa latitudinum in inſtāti medio ⁊ in fine acquiſitaꝝ:pꝫ ꝙ in fine ⁊ in inſtāti medio erunt vnifoꝛ difformes: qͦd fuit ꝓbandum. ↄña per ↄnez tertiā ſatis pꝫ.cū ergo in inſtāti meᵒ equeue inducetꝛ gradus ſumm⁹ in.a.ſicut in eius quartā ⁊c̄.ſequitꝛ ꝙ in inſtāti medio equeue inducetꝛ gᵘ ſumm⁹ in.a.ſicut in fine iſti⁹ hoꝛe:⁊ ſic nō ꝓcedit argᵐ.

¶ Capitulum 4ᵐ.

PEnes quid attēdatur inductio gradus ſummi in ſubiecto rarefacto vel maioꝛato poteſt dubitari. Primo nunquid attendatur penes ſpatium fixū illi ſubiecto maioꝛato correſpondens vt ſi nunc ſit totum pedale qͦd rarefiat:nunqd penes illud ſubiectū per qͦd inducitꝛ attēdatꝛ inductio:vel penes ſpatiū fixum illi ſubiecto extra correſpōdēs. Et arguitꝛ ꝙ nō attendatꝛ penes ſpatiū fixum. ¶ Sed eſt ꝑmo notādū ꝙ in iſta mā pro eodē hñda ſunt:aliquid vnifoꝛ quo ad ſubiectū rarefieri ⁊ quālꝫ partē iſtius eq̄lē equalꝛ acquirere de quātitate. Idem etiā eſt duo ineq̄lia equeue rarefieri:⁊ ꝓpoꝛ ſicut vnū eſt alio maius ita velocius acqrere de quātitate.rarefieri aūt vnifoꝛ ſm tp̄s eſt id ſubm in oī pᵗe tp̄is eq̄li eq̄lē ꝗtitatē acqrere. ¶ Ex his eſt māifeſtū ꝙ ſi aliqͦ vnifoꝛ difforme rarefiat vnifoꝛ quo ad ſubm alijs motib⁹ deductis tēpoꝝ ſemꝑ manebit vnifoꝛ difforme:ex quo.n.oēs pᵗes eq̄les eq̄lꝛ ↄtinēt de latitudie: ⁊ oēs pᵗes nūc eq̄les ſemꝑ erūt eq̄les oī alio motu ded̄cto: ſeqꝛ ꝙ quelꝫ pars eq̄lis eq̄lꝛ ↄtinue ↄtinebit de latitudie:⁊ per ↄñs totum manebit vnifoꝛ difforme. ¶ Ex his hꝫ ꝙ ſi ſit vnifoꝛ difforme ⁊ alteratū vno gradu vniformi ip̄m manebit vnifoꝛ difforme ſi rarefiat vnifoꝛ quo ad ſubiectū: qꝛ ſi nō rarefieret maneret vnifoꝛ difforme:vt per ſcd̄ā ↄnem totius ſatis pꝫ:⁊ per ꝓximā notabilitatē iſta rarefactio nihil ad toti⁹ faciet difformitatē: eo ꝙ erit vniformis quo ad ſubꝫ:ꝰ id manebit vnifoꝛ difforme. ¶ Iſtis ſuppoſitis arguitꝛ ↄ ſuppōnē ꝑmā. Sit enī.a.pedale vnifoꝛ difforme terminatū ad ſummū alteratū vno gradu vniformi quo poſſit fieri ſummū in hoꝛa ⁊ rarefiat ad duplū in iſta hoꝛa in qua fiet ſummū quieſcēte extremo remiſſioꝛi: que rarefactio ſit vniformis quo ad tp̄s ⁊ etiā quo ad pᵗes ſubiecti:⁊ ſit.b.oīno ſimile.a. qualitatiue ⁊ quātitatiue. Et ponantꝛ oīa de.b.ſicut de.a.preter hoc ꝙ nō ſit maioꝛatio b.quo poſito ſequitꝛ ꝙ equeue incipit gradus ſumm⁹ induci in.a.ſicut in.b.vel velocius:eo ꝙ ſubiectū eius incipit eſſe maius:⁊ in.b.ↄtinue equeue inducetꝛ ſicut extremū.a: mouebitꝛ localꝛ:eo ꝙ per gradū ſummū.b. pertranſibitꝛ pedale ſicut per illud extremū.a. ⁊ in.a. cōtinue velocius ⁊ velocius inducetꝛ:eo ꝙ quelꝫ pars.a. cōtinue erit maioꝛ ꝙ nunc:⁊ cōtinue poſt qͦlibet inſtans maioꝛ ꝙ in iſto inſtanti:

Margin notes, left column: "Iterum ↄ eandē regulam." (beside "infinitū:⁊ ſic nō ꝓcedūt argumēta"); "Reſpō." (beside "eſt falſa. ¶ Pro iſto").

Margin notes, right column: "pᵘ pō" (beside "to poteſt dubitari"); "zᵘ pō" (beside "nes illud ſubiectū"); "Nota" (beside "nō attendatꝛ penes ſpatiū fixum"); "Coꝛᵐ pᵐ" (beside "pᵗe tp̄is eq̄li eq̄lē ꝗtitatē acqrere"); "zᵐ" (beside "ↄñs totum manebit vnifoꝛ difforme"); "ↄ ꝑmā pōnem." (beside "quo ad ſubꝫ ... Iſtis ſuppoſitis").

ſtanti: ⁊ ſi ſubm nunc ſtaret nō maioratum nūc ꝯtinue vni/
formiter: ergo nūc ꝯtinue velocius ⁊ velocius ⁊c. ⁊ per cō
ſequēs nunc ꝯtinue velocius inducet̃ gradus ſūmus in.a.
ꝙ̃ extremum eius mouebit̃ localiter. cum ꝙ̃ pūctus velo/
ciſſime motus.a. ptrāſibit in hora pedale: ergo iſte gradus
plus ꝙ̃ pedale in illa hora ptrāſibit: ⁊ ſpatiū fixū per qḋ
diſtat ab extremo remiſſiori eſt pedale ſolū: ergo penes
illud nō habet velocitas inductionis attēdi. ¶ Ideo for/
te dicit̃ ꝙ inductio gradus ſūmi in.a. corrñdebit gradui
intēſiori ꝙ̃ inductio gradus ſūmi in.b. ⁊ etiā ꝙ̃ motus ex/
tremi.a. attēdēdo inductionē penes ſpatiū fixum ⁊ nō in
vtrūqꝫ ſolū inducet̃ per vnū pedale: eo ꝙ erit motus re/
trogradus gradus ſūmi in.a. ſic ꝙ alicui pūcto ſpatij fixi ꝑ̊
correſpōdebit gradus ſūmus vel pūct⁹ habēs gᵘᵐ ſūmum
cui poſt gradus ſūmus nō corrñdebit: ⁊ ita prius corrñde
bit ſic ꝙ per eādē partē iſtius fixi bis vel ter mouebitur
gradus ſūmus. ¶ Cōtra illud arguit̃: qa ſi ſic. ſit iſte pun/
ctus ſpatij fixi.c. cui ꝑmo corrñdebit pūct⁹ habēs.f. gᵘᵐ ſū/
mū: ⁊ poſt pūctus hñs gᵘᵐ remiſſum cum ad.c. pūctū de/
ueneris: ⁊ ſit nūc gr̃a exēpli inſtās in quo pūctus terminās
partē ſūmā eſt ad.c. punctum: tūc ad oēm punctū.a. vltra
c. erit gradus ſūmus anteꝙ̃ iſte per rarefactionē ad.c. pū/
ctū deueniet: qa ſi nō ſit.d. iſte gradus ſūmus ad quē nō:
⁊ arguit̃ ꝙ ſic: qa gradus ſūmus.c. pūcto corrñdēs equa/
liter diſtat a.d. ſicut.d. a.c. ⁊ cōtinue velocius accedet ver/
ſus.d. ꝙ̃.d. v̓ſus.c. ꝙ̃ gradus ſūmus deueniet ad.d. anteꝙ̃
d. ad.c. ꝯñtia pꝫ: ⁊ maior nota eſt. ⁊ minor pꝫ per hoc ꝙ ve
locior erit motus iſtius gradus ꝙ̃ pūcti velociſſime moti
iſtius a quo pūcto quilibet pūctus intrinſecus tardius ꝯtinue
mouebit̃. pꝫ ergo oppoſitū pōnis. Et tñ hoc argᵘᵐ nō vide
tur formale. pꝫ ꝓpter rarefactionē.a. ⁊ motū pūcto ꝛ: qa
vt apparet cum aſte ſtat motus retrogradus. ¶ Ideo ar
guit̃ ſic ⁊ melius. Si.a. nō rareſieret: tūc mō.d. pūct⁹ per mo/
tū localē equeclocit̃ accederet ad.c. ſicut nūc: tūc iſte gra/
dus ſūmus velocius induceret̃ ⁊ flueret v̓ſus.d. ꝙ̃.d. v̓ſus.c.
⁊ diſtātia foret equalis inter.d. ⁊.c. ⁊ inter gᵘᵐ ſūmū: ⁊ per
ꝯſequēs citius deueniret gradus ſūmus ad.d. ꝙ̃.d. ad.c. et
nūc poſita rarefactione ad oēm pūctum.a. equecito deue/
niet gradus ſūmus ſicut ſi nō rareſieret vt ꝯſtat: eo ꝙ ad
oēm pūctum nūc erit equalis alteratio ſicut tūc eſſet: ergo
nūc ad.d. citius deueniet gradus ſūmus ꝙ̃.d. ad.c. ꝯſequē/
tia pꝫ ⁊ maior ſilr̃. ſ. illa cōditionalis: qa velocius induceret̃
gradus ſūmus in.a. ꝙ̃ in pn̄ᵗᵉ: et in ꝑncipio equalr̃ inducet̃
ſicut extremū mouebit̃: ⁊.d. pūctus: ⁊ quilibet alius intrinſe/
cus multo tardius mouebit̃ ꝙ̃ extremū: ergo nūc veloci⁹
accederet gradus ſūmus ad.d. ꝙ̃.d. ad.c. et per ꝯñs citius
deueniret ad.d. ꝙ̃.d. ad.c. vt pearguitū eſt: ⁊ eſt ⁊ nūc ita ci/
to ſicut tūc: ergo nunc citius inducet̃ gradus ſūmus ad.d.
ꝙ̃.d. deueniet ad.c. ⁊ ſic de omni alio pūcto ſpatij fixi eſt
arguēdū: ⁊ de omni pūcto ſilr̃: ergo ſeqꝫ ꝙ ad nullū pun/
ctū ſpatij fixi ꝑciſe erit gradus ſūmus cui poſtea pūctus
a. hñs gᵘᵐ remiſſum corrñdebit. ideo illa ratio ponens mo
2° tū retrogradū nulla eſt. ¶ Scḋo ad ꝑncipale arguit̃ ſic.
Sequit̃ ꝙ tardius inducet̃ gradus ſūmus in ſubm rarefa
ctū ⁊ motum ꝙ̃ ſi ſtaret oibus alijs exiſtētib⁹ paribus: qa
ad oēm pūctū.a. equecito deueniet gradus ſūmus in ca/
ſu poſito ſicut ſi ſtaret: ⁊ quilibet pūct⁹ iſtius.a. incipit eē ꝓ/
pinquior pūcto terminātī ſpatiū fixum a quo incipit gra/
dus ſūmus fluere ꝙ̃ ſi.a. ſtaret: vt ſatis pꝫ: eo ꝙ quilibet pū/
ct⁹ iſtius.a. diſtās ab iſto extremo incipit accedere v̓ſus id
extremū: ergo nūc incipit gradus ſūmus minus de ſpatio
fixo trāſire ꝙ̃ ſi ſubm maneret nō rarefactum: ⁊ per cōſe
quēs iuxta poſitionē tardius incipit gradus ſūmus indu/
3° ci: cuius tñ oppoſitū ab oibus eſt ꝯceſſū. ¶ Tertio ꝯtra
poſitionē arguit̃ ſic. Ex illa ſequit̃ ꝙ inductio gradus ſū/

mi cōtinue erit certe velox ⁊ vniformis: que tamē nullius
erit velocitatis. Ponatur enim ꝙ.a. ſit vniformiter diffor
me terminatū ad ſūmum: ⁊ vt prius alteratū gradu quo
fiat ſūmum in hora: ⁊ moueat̃ quilibet pūctus in.a. preciſe
equeclociter per motū localē ſiue per rarefactionē verſus
extremū ſpatij fixi: vbi in ꝑncipio eſt gradus ſūmus ſicut
gradus ſūmus inducet̃ in.a. ⁊ maneat cōtinue quātitatis
ſicut nūc eſt: quo poſito ſequit̃ ꝙ gradus ſūmus vniformi
ter inducet̃: qa.a. eſt vniformiter difforme manēs quāti/
tatiue ⁊c. Et ꝙ nullius velocitatis erit inductio arguit̃ ſic.
Sit.c. extremū id ſpatij fixi: ⁊ ſequit̃ ꝙ illi extremo ſiue
pūcto gradus ſūmus vel pūctus terminās partē.a. ſm̄ ſe
totā remiſſam cōtinue correſpōdebit: qa gradus ſūmus
ab omni pūcto.a. equalr̃ diſtat ſicut iſte pūctus diſtat a.c.
⁊ gradus ſūmus verſus talē pūctū.a. equeuelociter acce/
det ſicut ille verſus.c. ergo equecito ad oēm talem pūctū
deueniet gradus ſūmus ſicut ille pūctus ad.c. ſequit̃ ergo
ꝙ ſemꝑ eidē pūcto ſpatij fixi gradus ſūmus correſpōde/
bit: ergo nihil de ſpatio fixo pertrāſibit: ⁊ per ꝯſequēs illa
inductio nullius erit velocitatis: qḋ fuit ꝓbādum. Quare
ex poſitione ſequit̃ ꝙ eſt impoſſibile. ¶ Item ex illa poſi/ 4°
tione ſequit̃ ꝙ inductio gradus ſūmi cōtinue erit vnifor/
mis que cōtinue erit velocior ⁊ velocior. nā ſit.a. vt ꝑus:
cuius quilibet pūctus incipiat moueri vt ꝑus: ⁊ remittat qli
bet pūctus motū ſuum vniformiter ad nō gradū in hora
data: tūc in inſtāti medio iſtius hore erit gradus ſummus
ad pūctū mediū.a. ⁊ iſte pūctus medius.a. tūc diſtabit a
c. pūcto ſpatij fixi per vnā quartā ſemipedalis: eo ꝙ me/
diante motu quo incipit moueri deueniret ad.c. in iſto in/
ſtāti: ſed nūc eius motus vniformiter remittet̃ ad ſubdu/
plum: ergo nunc in ſeꝗ̃ꝫ° minus trāſibit ille punctus me/
dius: ⁊ per ꝯſequēs tres quartas ſemipedalis: ſequit̃ ergo
ꝙ tūc diſtabit iſte gradus ⁊ pūctus medius toti⁹ per quar
tam ſemipedalis a.c. puncto: ⁊ in fine totius hore diſtabit
gradus ſūmus ab illo extremo.c. per ſemipedale: qa tunc
erit ad extremū remiſſius iſtius.a. qḋ in fine diſtabit ab
extremo ſpatij fixi ſcilꝫ a.c. puncto per ſemipedale: vt pa/
tet intuēti: ergo in triplo plus de ſpatio fixo ptrāſibit gra/
dus ſūmus in ſcḋa medietate ꝙ̃ in ꝑ̊ᵃ: ⁊ per ꝯſequēs iuxta
iſtā poſitionē gradui in triplo intēſiori correſpōdebit in/
ductio in ſcḋa medietate ꝙ̃ in ꝑma. ergo ſequit̃ cōcluſio.
¶ Itē ſi quilibet pūctus a nō gradu intēdat motū vnifor/ 5°
miter tardior ⁊ tardior erit inductio vt ꝯſtat intuēti: ⁊ etiā
multa alia inconueniētia ſequunt̃ illam poſitionē intuēti.
¶ Sed fundamētū iſtius poſitionis eſt hoc: ⁊ eſt valde Fūdamē/tū pōnis.
euidens. Capiat̃ vnum vniformiter difforme vt prius: qḋ
ſit.a. ⁊ cōdenſet̃ in ꝑma medietate illius hore in qua fiet
ſūmum ad ſubduplū ⁊ hoc vniformiter: et in ſcḋa medie/
tate eiuſdē hore rareſiat vniformiter ad quātitatē prius
habitā ⁊ quieſcat cōtinue extremū remiſſius illius: ⁊ ca/
piat̃ vnus punctus qui cōtinue corrñdebit gradui ſūmo:
quo poſito ſequit̃ ꝙ iſte pūctus ꝯtinue velocius mouebi/
tur in ꝑma medietate iſtius hore ꝙ̃ in ſcḋa. Sit enim.a. in
ꝑncipio bipedale gr̃a exēpli: ⁊ ſequit̃ ꝙ in inſtanti medio
erit totū pedale ad cuius pūctum mediū tūc erit gradus
ſūmus: ⁊ per conſequēs ab iſto tūc erunt tria ſemipedalia
pertrāſita: ⁊ in ſcḋa medietate iſtius iſte pūctus ſolū per/
trāſibit ſemipedale: eo ꝙ nullus erit motus retrogradus:
vt prius argutū eſt. Et iſte gradus cōtinue correſpōdebit
illi pūcto moto: ideo multo velocius mouebit̃ gradus ſū/
mus per inductionē in ꝑma medietate hore ꝙ̃ in ſecūda.
Sit ergo.b. in ꝑncipio equale.a. cōſiliter diſpoſitū cum.a.
⁊ ponātur oia de.b. ꝑter minorationē quātitatis: ⁊ ſequit̃
ꝙ per ꝑmā medietatē pūctus ſuper.b. tardius mouebit̃
pūcto moto ſuper.a. ⁊ illa puncta mouebunt̃ ꝯtinue eque/

velociter cũ gradibus ſuis:ergo gradus ſũmus velocius
inducet̃ in pͣma medietate tẽporis in.a.q̃ in.b.⁊.a.ꝯtinue
erit minus.b.ergo penes ſubm motum nõ attendit̃ indu-
2° ctio:ſed ſoluꝫ penes ſpatiũ fixum. ¶ Scḋo ſic. Ponat̃.a.
rareſieri ad dupluꝫ ⁊c̃.quieſcẽte extremo intẽſiori:⁊ ſit.a.
nũc gr̃a argumẽti pedale:⁊ ſequit̃ ꝙ gradus ſũmus duct⁹
in.a.fluet per bipedale:eo ꝙ nũc diſtat a puncto ad queꝫ
erit in fine per bipedale ⁊ punct⁹ manẽs cũ gradu ſum-
mo ptranſibit bipedale ⁊ gradus ſũmus equalr̃ cum iſto
pũcto:ergo gradus ſũmus ꝑtrãſibit bipedale:ſꝫ de ſpatio
moto nõ ꝑtrãſibit bipedale:eo ꝙ pars pertrãſita ⁊ ſũma
cõtinue maiorabunt̃:ergo de ſpatio fixo bipedale ꝑtrãſi-
bit ſicut veruꝫ eſt.ſequit̃ ergo ꝙ gradũ in duplo intẽſiori
corrñdebit inductio gradus ſũmi in.a.q̃ ſi ſtaret qḋ non
eſt verũ ponẽdo inductionẽ vel eius velocitatẽ attẽdi pe-
nes ſubm motũ.ſequit̃ ergo ꝙ attẽdit̃ penes ſubm fixum
ſuper qḋ mouet̃ id ſubm rarefactũ. ¶ Pro iſtis ergo di-
cit̃ negãdo poſitionẽ ponẽtem ꝙ inductio attẽdit̃ penes
ſpatiũ fixum.Ex 1° enim ſequit̃ ꝙ motus localis impedi-
ret velocitatem inductionis.

2ª pͦ **Et dicitur** ꝙ velocitas inductionis gradus ſũmi attẽdit̃ penes ſubiectuꝫ in qḋ inducit̃.

¶ Pro quo eſt notãdũ ꝙ ſubto aliquo rarefacto ſiue ex-
tremo remiſſiori quieſcẽte ſiue intẽſiori:ſi per totuꝫ rare-
fiat:⁊ ſit inductio gradus ſũmi per illud ſubm ꝯſiderãdũ
eſt quanta quãtitas acqrit̃ parti ſũme poſtq̃ illa eſt ſum-
ma:⁊ cõſiderãduꝫ ꝙ ſi illa pars eſſet ablata quãta quãti-
tas remaneret in fine:⁊ penes illã quãtitatẽ reſiduam ha-
bet velocitas totius inductionis gradus ſũmi attẽdi:vt ſi
pedale rareſieret ad duplum:ita ꝙ ſemipedalis quãtitas
acqrat̃ parti ſũme poſtq̃ illa eſt ſũma:tunc ſequeſtrata il-
la quãtitate ſemipedali remaneret pedale ⁊ ſemipedale
tãtuꝫ penes quã quãtitatẽ tota illa inductio in toto tp̃e at-
tendet̃:ita ꝙ eidem gͣᵘ corrñdebit 1ᵃ inductio quo gradu
per pedale ⁊ ſemipedale nõ rarefacta gradus ſũmus in-
ducet̃.⁊ ſic de cõdẽſatione ſequeſtrata quãtitate deꝑdita
in pte remiſſa ipſa exiſtẽte remiſſa penes totã quãtitateꝫ
reſiduã tota inductio gradus ſũmi attẽdit̃:vt ſi nũc totuꝫ
eſſet pedale cuius vna 4ᵃ deꝑderet̃ in parte remiſſã duꝫ
fuerit per totuꝫ remiſſa penes tres quartas reſiduas tota
inductio attẽdit̃.vnde ſubto rarefacto in qḋ gradus ſum-
mus inducit̃ duplex eſt mot⁹ iſtius gradus ſũmi.vnus eſt
mot⁹ eius ꝓpͥus ⁊ iſte eſt inductio gradus ſũmi:⁊ alius lo-
calis quẽ habet a ſuo ſubto moto in qḋ inducit̃ per quem
trãſit de ſpatio fixo:ſicut quãdo hõ mouet̃ in naui mouẽ-
do per motũ ꝓpͥum ꝑtrãſit ptes nauis:⁊ per motuꝫ nauis
ꝑtrãſit ptes aque.Et mouẽte naui verſus eãdẽ diãm po-
ſitionis verſus quã mouet̃ homo motu huius ꝓpͥo:motus
quo hõ acqrit de ꝑtibus aque eſt velocior q̃ mot⁹ nauis
vel q̃ motus eius ꝓpͥus.vbi vͦ ecõtrario mouet̃ nauis in
caſu eidẽ ſitui aque corrñdebit idem hõ.Et ſic oĩno ima-
ginãduꝫ eſt de inductione gradus ſũmi ⁊ de toto motu lo-
Ad argᵐ pᵉ pōnis cali euſdẽ. ¶ Et tunc ad argᵐ qḋ eſt fundamentũ eiuſdẽ
poſitionis dicit̃ ꝙ gradus ſũmus tardius ꝯtinue inducet̃
in.a.q̃ in.b.⁊ negat̃ hec ꝯñtia.gradus ſũmus in vtroq̃ cõ-
tinue corrñdebit pũcto motũ in eo.⁊ 1ᶜ pũctus in.a.ꝯtinue
velocius mouet̃ q̃ punct⁹ in.b.ergo velocius ꝯtinue indu-
cet̃ gradus ſũmus in.a.q̃ in.b.Sꝫ bene ſequit̃ ꝙ mot⁹ lo-
calis illius gradus in.a.per pͥᵐᵃ medietateꝫ iſtius tp̃is erit
velocior motu locali gradus ſũmi in.b.quo.ſ.tranſibit de
ſpatio fixo:inductio tñ gradus ſũmi in.a.erit tardior q̃ in
b.eo ꝙ.a.ſemꝑ erit minus.b.Et ideo ad argᵐ pͥᵐ illoꝝ di-
citur ꝙ velocius mouebit̃ gradus ſũmus in medietate pͣ.
iſtius tp̃is localiter q̃ in 2ᵃ.ſ.acqrẽdo de ſpatio fixo.Sed
inductio gradus ſũmi in illis duab⁹ medietatib⁹ tẽporis

eidẽ gradui in.a.correſpõdebit ſicut poſtmoduꝫ arguet̃.
¶ Pro 2° argumẽto di ꝙ gradus ſũmus fluens in.a.per
motuꝫ localẽ ꝑtrãſibit bipedale.hoc tñ nõ erit per motuꝫ
eius ꝓpͥum.ſ.per eius inductionẽ in.a.ſꝫ per motuꝫ cõpo-
ſituꝫ ex motu eius ꝓpͥo ⁊ motu ꝑtium ipſius.a.que moue-
bunt̃ localr̃ per rarefactionẽ:⁊ ſic nõ eſt verum inductio-
nẽ penes ſpatiũ fixum ⁊c̃.attẽdi:ideo di vt ꝓus ꝙ attẽdit̃
penes ſubm in qḋ inducit̃. ¶ Cõtra quã pōneꝫ arguit̃ ꝓ- ꝯtra 2ᵐ
bãdo ꝙ.a.erit ſũmuꝫ anteq̃ ipm erit ſũmuꝫ. Sit enim.a. pōnem.
vnũ q̃tuꝫ qḋ rarefiat ad dupluꝫ in hora in qua fiet ſũmũ ꝯclo pᵃ
vniformiter ſm tẽpus ⁊ ſm ſubm.⁊ ſit in pͥn° vniformiter
difforme terminatũ ad ſũmuꝫ:⁊ quieſcat extreᵐ remiſſius
ꝯtinue.Iſto poſito ſequit̃ ꝙ gradus ſũmus ꝯtinue veloci⁹
inducet̃ in.a.⁊ ꝓciſe per tãtuꝫ ſubm inducet̃ q̃tuꝫ eſt ſpa-
tiũ fixum inter 1° extreᵐ intẽſius ⁊ extreᵐ remiſſius quie-
ſcẽs:q2 ⁊ ſi pars ꝑtrãſita ſũma in īfinituꝫ rareſieret nõ di-
ceremus illũ gͣᵘ induci per infiᵗᵘ nec velocitatẽ illius indu-
ctionis gradui īfinito corrñdere:ſꝫ ſolũ penes illud atten-
det̃:qḋ ſubm eſt anteq̃ ꝑ ipm gradus ſũmus ſit inductus
⁊ per tãtuꝫ ſubm inducet̃ deducta rarefactione:ergo eidẽ
gradui corrñdebit inductio eu in pͥn° ante rarefactionem
corrñdiſſet.vel ſi gradui intẽſiori corrñdebit.ſequit̃ ꝯclu-
ſio illa deducta:q2 tunc ille gradus ante finẽ hore deueni-
ret per totuꝫ.a.q2 nõ erit mot⁹ retrogradus per caſum:⁊
per caſum nõ ante finẽ erit ſummum:q̃ erit ſũmum anteq̃
erit ſũmuꝫ.ſequit̃ q̃ illa ꝯcluſio.vel ſequit̃ hec cõcluſio ꝙ
eidẽ gradui corrñdet.a.rarefacto ⁊ ipſo nõ rarefacto gra-
dus ſũmi inductio:vt ꝓus argutũ eſt. ¶ Itẽ ſequit̃ ꝙ ſpa- 2°
tia fixa corrñdẽtia.a.⁊.b.nũc ſunt eq̃lia:⁊ ꝯtinue erũt equa-
lia ⁊ per mot⁹ inequeuelocꝫ in eodẽ tp̃e ꝑtrãſientur. Sit
enim.b.equale.a.quãtitatiue ⁊ q̃litatiue qḋ in eodẽ tp̃e ra-
refiat vniformiter ſm tẽpus ⁊ ſm ſubm ad ſuuꝫ ſexqalte-
rum:quo poſito ſequit̃ ꝙ gradus ſũmus ꝯtinue veloci⁹ in-
ducetur in.a.q̃ in.b.q2 alteret̃.b.ꝓciſe eodẽ gradu quo.a.
tunc vltra ſeq̃t ꝙ mot⁹ illius gradus inducti in.a.cõit̃ erit
velocior q̃ mot⁹ iſtius gradus inducti in.b.q2 in nulla ꝓ-
portione velocior vel tardior incipit mot⁹ iſti⁹ gradus eſſe
q̃ ſi.a.nõ rareſieret:⁊ ſic etiã de.b.eo ꝙ in nulla ꝓpor̃ in-
cipiunt pũcta eoꝝ eẽ ꝓpinquiora extremo ſpatij fixi q̃ ſi
nõ rareſierẽt:⁊ eadẽ rõne erit mot⁹ tardior in nullo inſtã-
ti vel velocior in alia ꝓporᵗᵉ q̃ ſi ſtarẽt ꝑuĩc.Sed q̃cũq̃
īſtãti dato in certa ꝓpor̃ foret mot⁹ iſtius gradus in.a.ve-
locior in ꝑtranſitione ſpatij fixi q̃ mot⁹ gradus inducti in
b.igit̃ ſequit̃ ꝙ motus gradus ſũmi in.a.ꝯtinue erit velo-
cior ꝑtrãſitio ſpatij fixi q̃ mot⁹ gradus inducti in.b.⁊ ſpa-
tia fixa ſunt equalia:⁊ tñ equeciꝰ ꝑtrãſient̃:vt patet intẽ-
ti. ¶ Itẽ ꝯtra hãc pōnem ſunt argᵗᵃ facta pro fundamẽto
pōnis ꝓcedẽtis:⁊ alia que poſtmoduꝫ reducent̃. ¶ Ideo
ꝯcedẽda eſt poſitio ⁊ negãde ſunt ꝯñes reducte:⁊ dicit̃ ꝙ
per multo maius ſubm inducet̃ gradus ſũmus q̃ eſt ſpa-
tiũ fixum.dicit̃ enim ꝙ īfinite tarde incipit moueri loca-
liter ſup ſpatiũ fixum:q2 cum fuerit 4ᵃ totius ſpatij ꝑtrã-
ſita erit gradus ſũmus induct⁹ per medietatẽ totius.a.per
rarefactionẽ ⁊ motuꝫ localẽ ꝑtium remiſſaꝝ illius.a.nul-
lus tñ erit mot⁹ retrogradus iſtius gradus vt ꝓus eſt argu-
tũ:vt capto vno ſubto pedali moto localr̃ ſine rarefactio-
ne:cuiuſlibet punct⁹ in duplo tardius moueret̃ q̃ gra-
dus ſũmus induceret̃:gradus ſũmus de ſpatio fixo ſoluꝫ
ptranſiret ſemipedale ⁊ induceret̃ per pedale per obuia-
tionẽ ꝑtium remiſſaꝝ ad diuerſas ptes fixi ſpatij vt ſatis
pꝫ.⁊ ſic ſoluit̃ 2ᵃ cõcluſio que depẽdet ſup hoc ꝙ in nulla
ꝓportiõe tardius incipit ille gradus acqrere de ſpatio fi-
xo q̃ ſi nõ rareſieret:ſꝫ id eſt falſum:in īfinituꝫ enim tar-
dius incipit acqrere de tali ſpatio q̃ ſi ſtaret.hoc ſic argᵗ.
Sit enim gradus ſũmus ſic defluens.c.⁊ ſit gratia exẽpli

totum

totum ſpatiū octo pedaliū.ſ.fixum.arguit̄ ꝙ in ꝑma pte
ꝓportionali illius hore cōputādo ptes minores v̄ſus hoc
inſtās.c.ptrāſibit p̄am ptem ꝓportionalē ⁊ 2am:⁊ in ſcda
parte 3am ⁊ 4am:⁊ ſic in infinitū:⁊ per ↄſequens gradui in
duplo intēſiori correſpōdebit finis motus in ꝑma pte ꝓ
portionali hore q̄ȝ in ſcda:⁊ ita de alijs:ꝗa ſit.d.illud ſpa
tiū fixum ⁊ ſit extremū cui correſpōdet in ꝑncipio extre.m
intēſius.a.⁊ arguit̄ ſic. In ꝑma medietate illius hore erit
medietas.a.ſūma.cum ergo totū.a.nūc erit.12.pedaȝ:ſeq
tur ꝙ ſex pedalia iſtius tunc erūt ſūma:⁊ 4or pedalia illi9
medietatis tunc erūt vltra.c.ergo de.d.erit ſoluȝ bipeda
le ptrāſitūȝ qd̄ eſt totum ꝑter p̄am partē ꝓportionalē ⁊ 2am:
⁊ in tota hora erit totum.d.ptrāſitūȝ:ergo ſex pedalia illi9
erunt ptrāſita in ꝑma pte ꝓportionali hore que ↄſtituunt
p̄am partē ꝓportionalē ⁊ 2am.Siliter in ꝑma 4a illius ho
re erit 4a.a.ptrāſita ⁊ ſūma.cum ergo totū.a.tunc erit.10.
pedalia:ergo tūc erūt bipedale ⁊ ſemipedale ipſius.a.ſū
ma:⁊ tunc erit bipedale vltra.c.ergo de.d.tūc erit ſolū ſe
mipedale ptrāſitum a.c.ↄſtria tenet:⁊ in fine ſcđe ptis ꝓ
portionalis hore erit bipedale de.d.ptrāſitū.ergo in ſcda
pte ꝓportionali hore.c.ptrāſibit ſolum pedale et ſemipe
dale de.d.que ↄſtituūt 3am partē ꝓportionalē ⁊ 4am:ſilr
in 8a hore ptrāſietur 8a pars totius.a.que tunc erit ſūma:
⁊ erit ſolum pedalis quātitatis ⁊ 8e pedis ⁊ vltra.c.erit pe
dalis tunc de.d.ergo ſoluȝ 8a pedis erit ptrāſita de.d.⁊ in
fine tertie ptis ꝓportionalis hore erit ſemipedale ptrāſi
tum de.d.per motum.c.ergo in 3a parte ꝓportionali hore
trāſibit.c.de.d.tres octauas vnius pedis que 5am ⁊ 6am par
tem ꝓportionalem cōponunt:vt patet calculāti.Et ſic ar
guēdum eſt de oībus ptibus ꝓportionabilib9 hore ꝙ vlr
in omni parte ꝓportionali iſtius hore in triplo plus ptrā
ſibit de.d.q̄ȝ in toto tēpore ꝑcedēti:vt ſatis apparere pote
rit intuēti.¶ Sed ↄtra iſtā reſpōſionē arguit̄ ſic.Si nūc
infinite tarde incipit.c.acqrere de.d.vel moueri localiter
cum rarefactione que vniformis erit ⁊.c.ↄtinue termina
bit partē ſm ſe totā remiſſam:ſequit̄ ꝙ qua rōne nūc in
finite tarde incipit moueri localiter ꝙ ↄtinue ita faciet:et
per ↄſequēs nihil trāſibit. ¶ Pro iſto dicit̄ negādo cōſe
quētiā:eo ꝙ nunq̄ȝ infinitū tardius incipit eſſe mot9.c.ni
ſi quādo extremū intēſius ſubdi e q̄uelociter cum iſto gra
du incipit moueri ab eodeȝ gradu. Et ita eſt in omni caſu
vbi ſubm in eodē tēpore in quo fiet ſūmum vniformiter
rarefiet ad dupluȝ.vbi tamē nō rarefiet ad duplū:ſed ad
minus q̄ȝ ad duplū quieſcēte cōtinue extremo remiſſiori
ſoluȝ finite tarde incipit gradus ſūmus acqrere de ſpatio
fixo:eo ꝙ in certa ꝓportione incipit talis gradus velocı9
acqrere de ſubito moto q̄ȝ aliqs punct9 iſtius de ſpatio fi
xo.Siliter vbi rarefit vltra dupluȝ ⁊c̄.per magnū tēpus
feret̄ vltra extremū ſpatij fixi cui nunc correſpōdet pro
pter velocitatē mot9 pūcti vſq̄ȝ.ſ.ad id inſtās a quo vſq̄ȝ
in finē iſtius tēporis in quo totū fiet ſūmum ipſum ſubm
maiorabit̄ ad dupluȝ etiā in iſto inſtāti infinite tarde inci
piet moueri localiter.et ↄuerſo v̄ſus aliud extremū ſpatij
fixi.vnde ſi nō feret̄ vltra id extremū ſpatij correſpōdēs
gradui ſūmo per totū illud tēpus vſq̄ȝ ad id inſtās a quo
rarefiet ad duplū infinite tarde moueret̄ localiter:vt pa
3a ↄcl'o ↄ pōnē. tet calculāti.¶ Itē ex iſta poſitione ſequit̄ ꝙ infinitū tar
de ↄtinue erit motus localis gradus ſūmi quo in hora ſpa
tium pedale erit ptranſitū/nulla pte illius pedalis ſubito
ptrāſita . Silr eidem puncto ſpatij fixi cōtinue correſpō
debit.c.gradus qui aliquādo per pedale diſtabit a pūcto
a quo incipit moueri vel cui cōtinue corrñdebit:poſito ꝙ
a.ſit vniformiter difforme terminatū ad ſūmuȝ vt prius:
⁊ alteratū gradu vniformi quo fiat ſūmuȝ in hora ⁊ rare
fiat extremo itēſiori moto:⁊ quieſcēte extremo remiſſio
ri:ita ꝙ ſemꝑ per ptē ſm ſe totā remiſſam ipſius.a.q̄cūq̄ȝ
inſtāti dato rarefiat tali gradu quo poſſit maiorari ad du
pluȝ ab iſto inſtāti vſq̄ȝ in finē hore:⁊ incipiat nūc tali gra
du quo poſſet rarefieri ad dupluȝ in hora equaliter ⁊ fiat
rarefactio vniformis ſm ſubm . Tunc per riſionē datā
pro q̄libet inſtāti īfinite tarde mouebit̄ gradus ſūmus lo
caliter ſuꝑ ſpatiuȝ fixum:eo ꝙ pro q̄libet inſtāti termina
bit ptē que ab iſto inſtāti vſq̄ȝ ad finē hore rarefiet ad du
pluȝ mediāte gradu quo ꝑtūc rarefiet:ꝗ per riſioneȝ da
tam pro q̄libet inſtāti in infinituȝ tarde mouebit̄ gradus
ſūmus localr.¶ Itē extremuȝ intēſius ptis alterādē pro
q̄libet inſtanti e q̄uelociter mouebit̄ ad gradus ſūmos in
ducēdos:eo ꝙ ab iſto inſtāti vſq̄ȝ in finē totuȝ rarefiet ad
duplū quieſcēte extremo remiſſiori:ꝗ extre.m intēſius tātū
ptrāſibit quātum iſte gradus ſi ↄtinue maneret talis gra
dus mot9:ꝗa tātum ſicut ꝑtūc erit tota pars.a.remiſſa.ſe
quit̄ ꝗ ꝙ infinite tarde ↄtinue erit motus localis gradus
ſūmi.Et ꝙ ptrāſibit pedale ſatis pȝ:ꝗa nunc diſtat ab ex
tremo remiſſiori per pedale:⁊ in fine erit ad extremū re
miſſius.Et ꝙ nullā ptē.a.ſubito ptrāſibit nc ſpatij fixi ar
guit̄ ſic.Sit.b.tātū ſicut erit.a.in fine:⁊ ↄſilr diſpoſitū ſi
cut nunc eſt.a.⁊ alteret̄ eodē gradu quo.a.erit maneat tā
tuȝ in quātitate ↄtinue.quo poſito ſequit̄ ꝙ ad pūcta cor
reſpōdētia.a.b.ↄtinue erit gradus ſūmus:⁊ per ↄſequens
pars alterāda.b.ↄtinue erit maior parte alterāda.a.eo ꝙ
b.ↄtinue erit maius.a.⁊ ↄſilr diſpoſitum cum.a.ꝗ gradus
ſūmus in.b.ↄtinue plus diſtabit ab extremo remiſſiori q̄ȝ
ſūmus in.a.ab extremo ſuo remiſſiori.cum ꝗ nullā ptē.b.
ſubito ptrāſibit nec aliquā ptē ſpatij fixi correſpōdenteȝ
ipſi.ſequit̄ ꝙ gradus ſūmus nō ptrāſibit aliquā pteȝ ſpa
tij corrñdētis.a.ſubito ꝗ ſequit̄ ↄcluſio 2a:que pȝ in eodeȝ
caſu:ꝗa īfinitum tardius erit mot9:⁊ eidē puncto corrñde
bit:⁊ aliqñ erit gradus ſūmus ad extremum remiſſius qd̄
diſtat a pūcto nūc correſpōdēte gradui ſūmo per pedale:
ideo ſequit̄ vtraq̄ȝ cōcluſio.¶ Itē ſequit̄ ꝙ.a.nō diſtabit
ab extremo corrñdēte remotiori extremo per ſemipeda
le ⁊ 4am pedalis:⁊ ſic in īfinituȝ:ꝗa ſic erit de.b.⁊ in.a.cō
tinue erit diſtātia minor q̄ȝ in.b.per ꝑargumta.ꝗ ⁊c̄. ⁊ tamē
ↄtinue per pedale diſtabit.¶ Ideo dicit ꝙ totū illud pe
dale qd̄ eſt ſpatiū fixum ſubito ptranſibit.Et qñ ponit̄ ꝙ
b.ſit tātuȝ ſicut erit.a.in fine:⁊ ↄſilr diſpoſitū ſicut nūc eſt
a.dicit̄ ꝙ hoc eſt īpoſſibile:eo ꝙ.a.rarefiet in infinitū.im
poſſibile enim eſt īfinituȝ eſſe vniformiter difforme aliq̄
latitudine : ergo caſus eſt īpoſſibilis.⁊ ſiliter.a.nō poterit
manere in fine:ꝗa tunc nullus punct9 iſtius alicubi foret
nec aliq̄ pars ꝓportionalis cōputando ptes minores ver
ſus extre.m remiſſius.Uel pōt dici ꝙ iſte gradus ſummuȝ
nunq̄ȝ ptrāſibit hoc pedale fixuȝ:eo ꝙ totū nunq̄ȝ erit ſū
mū ⁊c̄.¶ Ubicūq̄ȝ ſubm aliqd̄ vniformiter difforme ter
minatū ad ſūmum alteratuȝ gradu aliquo vel latitudine
rarefiat in nulla ꝓportione velocius inducit̄ gradus ſū
mus vel incipit induci q̄ȝ ſi ſubm illud nō rarefieret:q2 ſi
ſic:ſit.a.vnum tale ſm ſe totū remiſſum terminatū ad ſū
muȝ ⁊c̄.Et arguit̄ ſic.Uelocius inducit̄ gradus ſūmus in
omne maius:⁊ ↄſiliter diſpoſitū cum eo q̄ȝ nūc inducit̄ in
a.vel incipit induci:ſed in īfinitū modicuȝ velocius ꝑciſe
inducetur gradus ſūmus in aliqd̄ maius.a.⁊ ↄſilr cum eo
diſpoſituȝ mediāte illa alteratione q̄ȝ in.a.ſi ſtaret:igit̄ in
nulla ꝓportione velocius in.a.⁊c̄.minor patet:ꝗa īfinituȝ
modice eſt.a.aliquo illoꝝ minor . Et maior ſic arguit̄.Si
nō in qd̄libet maius.a.velocius:ſit illud.c.ↄtra.per tēpus
erit maioris quātitatis q̄ȝ.a.vt notum eſt.⁊ ad oīa puncta
a.c.correſpōdētia equeſcito deueniet gradus ſūmus:ꝗ per
magnuȝ tēpus velocius inducet̄ gradus ſūmus in.c.q̄ȝ in
a.q2 per maius ſubm inducentur in.c.q̄ȝ in.a.Añs patet:q2

Hoc ē bñ ↄſiderādū nāquid ſit verum.

Paris re gula hui9 cap. ⁊ 32a in ordine.

oīa pūcta.a.c.correſpōdētia equaliter diſtāt a ſūmo:⁊ al/
terationes erunt in.a.c.oīno equales:⁊ ſicut arguitur de.c.
ita de quocūq; alio maiori.a.⁊ ɔſilr diſpoſito cum eo eſt
arguēdum ꝙ in ꝙlibet.ſ.illoꝝ per magnuʒ tēpus velo/
cius inducet̃ gradus ſūmus ꝗ in.a.Cōſiliter arguitur.Si
vna pars.a.ſit ſūma ⁊ reliqua remiſſa:ꝗa ſicut ꝑus argutū
eſt de toto.a.ꝙ in tp̄m tunc tardius inducet̃ gradus ſum/
mus ꝗ in aliqͦ maius ⁊c̃.Si rareſiat ita arguēduʒ eſt de
ꝑte iſta ſm ſe totā remiſſa ꝙ in eadē ꝑte tardius inducet̃
ꝗ in aliqͦ maius illa ꝑte ɔſilr cum iſta ꝑte diſpoſituʒ.pʒ
ḡ id ꝓbādum ꝙ tanꝗ regula obſeruet̃. ¶ Si aliqͦ ſub/
iectū vniformiter difforme terminatū ad ſūmum altera/
tum vno gradu vbi rareſiat vniformiter ſm tēpus ⁊ ſm
ſubm inductio gradus ſūmi vniformiter intēdet̃.𝔅 ſic ꝓ/
bat̃.Sit.a.difforme terminatū ad ſūmuʒ:vt ponit̃ in an/
tecedēte.⁊ ſit.b.ɔſilr diſpoſitū q̄litatiue ⁊ quātitatiue cuʒ
a.alteratū eo gradu quo.a.nō tñ rareſiat.b.tunc ꝓportio/
nabilr ſicut quātitas ipſius.a.erit maior:ita inductio erit
velocior:ſʒ quātitas vniformiter maiorat̃:ḡ inductio vni/
formiter intēdetur.ɔñia poſtea arguet̃ ⁊ maior ꝓbat̃:ꝗa
ꝓpoꝛ ſicut.a.eſt maius.b.ita velocius inducet̃ gradus ſū/
mus in.a.ꝗ in.b.⁊ in.b.cōtinue ita velociter inducet̃ gra/
dus ſūmus ſicut in ꝑnº incipit induci:⁊.a.eſt tāte ꝗtitatis
ſicut cōtinue erit.b.ꝑciſe:ergo ꝓpoꝛ ſicut.a.erit maius ꝗ
nūc eſt: ita velocius inducet̃ gradus ſūmus in.a.ꝗ nunc.
ɔñia pʒ:añs ꝓbat̃.ſ.ꝙ ꝓpoꝛ ſicut.a.erit maius.b.ita ve/
locius inducet̃ gradus ſūmus in.a.ꝗ in.b.ꝗa ꝓportionalr
ſicut pars alterāda ipſius.a.erit maior ꝑte alterāda.b.ita
velocius inducet̃ gradus ſūmus in.a.ꝗ in.b.⁊ ꝓpoꝛ ſicut
pars alterāda ipſius.a.erit maior ꝑte alterāda.b.ita.a.erit
totū maius toto.b.ḡ ꝓpoꝛ ſic.a.erit maius.b.ita velocius
inducet̃ gradus ſūmus in.a.ꝗ in.b.ɔñia nota eſt:⁊ maior
pʒ per ꝑargūta.⁊ minor pʒ:ꝗa ꝑtes correſpondētes.a.⁊.b.
equecito forēt ſūme:ꝗa equalr diſtant a ſūmo ⁊ eq̄lis ſiet
alteratio ad iſtum punctū:ḡ tāta ɔtinue erit ꝓportio.a.ad
ꝑtē alterādam ſuā ſicut.b.ad ꝑteʒ ſuā alterādā:ḡ ꝑmuta/
tim ſicut.a.ad.b.ita pars alterāda.a.ad ꝑtem alterādā.b.
ergo ɔcluſio vera.Probat̃ nūc ɔñia ꝑma que ſic arguit̃.
Uel eſt inductio tāta ſicut quātitas:vel maior vel minor.
Si ſit tāta ſicut quātitas:⁊ ꝓportionabilr ſicut quantitas
ſiet maior ita inductio ſiet velocior:ḡ quātitas ⁊ inductio
ɔtinue erunt equales.ɔñia pʒ:eo ꝙ tātum ɔtinue acgret̃
inductioni ſicut quātitati ꝓpter hoc ꝙ ſi equalibꝰ equalia
addant̃ relicta ſunt equalia:ḡ cum quātitas vniformiter
maioret̃:inductio vniformiter maiorabit̃:ꝗa eq̄uelociter
cum quātitate.Si vo inductio ſit minor ꝗ ꝗtitas ⁊ eque
ꝓpoꝛ augmētent̃:ſequit̃ ꝙ ꝓportionabilr ſicut inductio
eſt minor quātitate:ita minus ɔtinue acgret̃ de inductio/
ne ꝗ de ꝗtitate:ḡ ſi quātitas vniformiter maioret̃:indu/
ctio etiā vnifoꝛ.Si inductio erit maior ꝗ quantitas:ḡ in
iſta ꝓpoꝛ plus acgrit̃ de inductiōe ꝗ de quātitate.ɔñia
pʒ:ꝗa ſi inequalia eque ꝓpoꝛ augmētent̃:ſequit̃ ꝙ ſicut
vnuʒ eſt alio maius:ita ꝓportionabilr ɔtinue plus acgret̃
maiori ꝗ minori:vt pʒ.ſequit̃ ḡ ꝙ ſi inductio eque ꝓpoꝛ/
tionabilr maioret̃ cum quātitate ⁊ quātitas vniformiter
maiorabit̃ ꝙ inductio vnifoꝛ intēdet̃:qͦ fuit ꝓbādum.
¶ Et tñ illa ſit falſa arguit̃ ſic.Intenſio inductionis gra/
dus ſūmi in.a.ſupra inductionē in.b.cōſequit̃ acgſitioneʒ
ꝓportionis.a.ſupra.b.ꝗa ꝓpoꝛ ſicut quātitas ſe hēbit ad
quantitatē.b.ſic inductio gradus ſūmi in.a.ſe hēbit ad in/
ductionē gradus ſūmi in.b.vt ſatis ɔſtat ex predictis.⁊ ſic
nūc inter quātitates eſt ꝓportio eq̄litatis:ita iter illas in/
ductiones eſt ꝓportio eq̄litatis:ḡ vna velocitas acgſitio/
nis ꝓpoꝛ quātitatis vel inductionis cōſequit̃ aliā.cum ḡ
tardius ⁊ tardius ɔtinue maiorabit̃ ꝓportio quātitatis.a.
ſupra.b.ſequit̃ ꝙ tardius ⁊ tardius inductio itēdet̃.Et ꝙ
ɔtinue tardius ⁊ tardius maiorabit̃ ꝓportio.a.ſupra.b.ar/
guit̃:ꝗa ɔtinue.a.vnifoꝛ acgrit quātitatē ſtāte.b.ḡ vnifoꝛ/
miter maiorabit̃ exceſſus.a.ſupra.b.⁊ per ɔñs tardius et
tardius maiorabit̃ ꝓportio.a.ſupra.b.ſequit̃ iſtā ɔneʒ ꝑn/
cipalē eſſe falſam. ¶ Pro iſto dr̄ ɔcedēdo ɔnem:ꝙ.ſ.vltͦ
ſubto tali vniformiter rarefacto ſm ſubiectū:⁊ ſm tēpus
vniformiter intēdet̃ inductio:vt ꝓbat argm. ¶ Item ɔce/
dit̃ ꝙ in nullo inſtāti in aliqua ꝓportione erit talis indu/
ctio velocior ꝗ ſi tunc ſtaret.Et ad argm in oppom intēſio
inductionis ⁊c̃.ɔſequit̃ acgſitioneʒ ꝓportionis.a.ſupra.b.
negat̃:imo qñ arguit̃ ſicut quātitas.a.ad quantitatē.b.ita
inductio gradus ſūmi in.a.ad inductionē gradus ſūmi in
b.ɔtinue ſe habebit:ḡ ad acgſitionē vnius:ſequit̃ acgſitio
alterius.negat̃ ɔñia:imo ɔcedit̃ ꝙ acgſitio ꝓportiōis in/
ductionis ad inductionē ɔſequit̃ acgſitionem ꝓportionis
quātitatis ſupra quātitatē.Et illud bñ ſequit̃ ex ꝑmiſſis:⁊
ideo tardius ⁊ tardius cōtinue maiorabit̃ ꝓportio indu/
ctionis ad inductionē:ex quo tñ nō ſequit̃ inductionē tar/
dius intēdi:ꝗa quātitas.a.vniformiter maiorabit̃ ⁊ ꝓpoꝛ/
tio quātitatis ad quātitateʒ tardius ⁊ tardius maiorabit̃.
Silr eſt de intēſione inductionis ſicut de acgſitione quā/
titatis ſupra quātitatē vt ꝓbatuʒ eſt:ideo nō ꝓcedit argm.
¶ Ex iſto ſequit̃ ꝙ cōtinue inducet̃ velocius gradus ſū/ pm corr ɔ pdicta
mus in.b.ꝗ in.a.⁊ tñ per magnuʒ tp̄s tardius.Sint enim
a.⁊.b.vniformiter difformia eadem latitudine terminata
ad gradū ſūmuʒ alterata aliquo gradu quo ſient ſūma in
hora ⁊ rareſiat.a.vniformiter ad duplū tam ſm tēpus ꝗ
ſm ſubm:⁊ incipiat.b.rareſieri in eodē gradu quo.a.⁊ ra/
reſiat.b.ſolū per ꝑtem ſm ſe totā remiſſam equalr acgrē/
do ꝗtitatē ſicut.a.tunc ex quo.b.cōtinue per ꝑtem mino/
reʒ ⁊ minorē rareſiet acgrēdo equalr quātitatē cum.a.ſe/
quit̃ ꝙ gradus rarefactionis in.b.ɔtinue erit velocior gra/
du rarefactionis in.a.ḡ pars alterāda in.b.ɔtinue erit ma/
ior ꝑte alterāda in.a.Aliter ꝓbo ꝙ pars alterāda in.b.cō/
tinue erit maior ꝑte alterāda in.a.ꝗa.a.⁊.b.continue erūt
equales:⁊ ɔtinue erit maior ꝓportio.a.ad ꝑtem ſuā alterā/
dā ꝗ.b.ad ꝑtem ſuā alterādam:ḡ pars alterāda in.b.ɔti/
nue erit maior ꝑte alterāda in.a.ꝗa.a.⁊.b.ɔtie erunt equa/
les:⁊ ɔtinue erit maior ꝓportio.a.ad ꝑteʒ ſuā alterādā ꝗ
b.ad ꝑtem ſuā alterādā:ḡ pars alteranda in.b.ɔtinue erit
maioris ꝗtitatis ꝗ pars alterāda in.a.ꝓbo ɔñiaʒ.Duoꝝ
duoꝝ equaliū ad 3m eadē eſt ꝓportio:ſʒ.a.⁊.b.ɔtinue erūt
equales:ḡ tāta ɔtinue erit ꝓportio.b.ad ꝑtem alterādā.a.
ſicut.a.ad eādē ꝑtem.cum ḡ maior erit ꝓportio.a.ad ꝑteʒ
ſuā alterādā ꝗ.b.ad ſuā.Et ſi aliqͦ in ꝓpoꝛm maioris in/
equalitatꝭ ſe habeat ad aliqua duo ad minus habet ꝓpoꝛ/
tionē maiorē:ḡ pars alterāda.a.ɔtinue erit minor ꝑte alte/
rāda.b.ḡ ɔñia fuit bona.Et ꝓbo añs.ſ.ꝙ cōtinue eſt ma/
ior ꝓportio.a.ad ꝑtem alterādā ꝗ.b.ad ꝑteʒ ſuā.Nam.a.
rareſieret ſm ſe totuʒ:⁊.b.nō rareſieret niſi ſm ꝑtem re/
miſſam:ḡ maior erit ꝓportio.a.ad ꝑteʒ ſuā alterādā ꝗ.b.
ad ſuā.ɔñia tenet:ꝗa ſi.b.rareſieret totū:tunc foret eq̄lis
ꝓportio.a.ad ꝑtē ſuā remiſſam ſicut eſt.b.ad ꝑtē ſuam re/
miſſam.Sʒ nūc pars remiſſa.b.eſt maioris quātitatis ꝗ
tūc eēt:ꝗa nūc acgret plus ꝗ tunc acgreret:eo ꝙ nūc acg/
ret ſicut totuʒ.b.tūc acgreret ⁊ tunc totū.b.plus acgret ꝗ
ſua pars remiſſa:ḡ pars remiſſa.b.nunc ɔtinue plus acg/
ret ꝗ ſi.b.rareſieret per totū ſicut ⁊.a.⁊ per ɔñs nunc erit
ɔtinue maioris ꝗtitatis ꝗ tunc eſſet:⁊.b.equalis ꝗtitatis
ſicut tūc eēt:ḡ nūc erit minor ꝓportio.b.ad ꝑtem ſuā alte/
rādaʒ ꝗ tūc eēt:⁊ tunc eēt tāta ꝓportio.b.ad ꝑtem ſuā re/
miſſam ſicut.a.ad ꝑtem ſuam remiſſam:ḡ nūc ɔtinue erit
maior ꝓportio.a.ad ꝑtem ſuā alterādā ꝗ.b.ad ꝑtem ſuā
alterādam:qͦ fuit ꝓbandū.ḡ pars alterāda.b.ɔtinue erit
maior

Margin notes: 2a regula 33a in ordine (beside "ḡ id ꝓbādum"); ɔtra 2am regulaʒ (beside "¶ Et tñ illa ſit falſa").

maioꝛ ꝗ̄ pars alteranda.a.et rarefactio manebit cōtinue vniformis ſm ſubm.ſ.ſm ptem.b.ſm ſe totã remiſſam:ꝛ per ɔñs ꝙ tota pars ſm ſe totã remiſſaꝫ ɔtinue manebit vnifoꝛ' difformis:quo poſito imaginemur ꝙ totuꝫ in pñᵒ ſit vnifoꝛ' rarũ:ſi nō eſſet aliqḋ rarũ vniforme qḋ ɔtinue ſm ſubm vno gradu rareſiat ſiue intēdat rarefactio ſiue nō:ſiue maneat nec intēſa nec remiſſa: quelibet pars iſtᵘ equalē q̄ntitatē acqret ſicut pars ſibi equalis:vt ſatis pꝫ. Si ḡ in pñᵒ ſit vniformiter difforme qualificatũ caliditate vel frigiditate vel de alijs/ſpm ɔtinue vnifoꝛ' difforme ꝑmanebit.ɔñtia nota eſt intuēti:tūc vtra pars ſm ſe totã remiſſam iſtius.b.ɔtinue manebit vniformiter difformis ɔſilr̄ diſpoſita cuꝫ pte alterãda.a.ꝛ pars remiſſa.b.ɔtinue erit maioꝛ pte remiſſa.a.eo ꝙ cōtinue velociori gradu rareſiet:ḡ ɔtinue velocius inducet gradus ſũmus in.b.ꝗ̄ in a.ꝛ tñ per certuꝫ tēpus tardius:ꝛ eius ꝓbatio eſt hec. Capiat inſtãs mediũ totiᵘ hoꝛe:tūc in iſto inſtãti erit vtrũqꝫ in ſexqualtero maius ꝗ̄ iam eſt.ponat ḡ grã exempli ꝙ in pñᵒ vtrũqꝫ ſit pedale:ꝛ ſequit ꝙ per tres q̄rtas pedis erit tūc gradus ſũmus inductus in.a.ꝛ nō per tãtuꝫ in.b.qꝛ ad pũcta nūc media.a.ꝛ.b.erit tunc gradus ſũmus inductus. Cum ḡ maioꝛ quãtitas eſt acqſita ſcḋe medietati.b.ꝗ̄ pᵉ: qꝛ ɔtinue eodē gradu rareſiet 2ᵃ medietas per totuꝫ ꝛ pᵃ medietas per ptem:ḡ 2ᵃ medietas erit maioꝛ pᵃ:ꝛ totũ.b. erit equale.a.ḡ pma medietas.b.erit minoꝛ ꝗ̄ tres quarte pedis.ḡ ſequit ꝙ tunc erit gradus ſũmus per plus inductus in.a.ꝗ̄ in.b.ꝛ per ɔñs in pma medietate velocius inducet in.a.ꝗ̄ in.b. Uel fiat argᵐ de duobus pũctis fluentibus ſup.a.ꝛ.b.cum iſtis gradibꝰ ſũmis:ꝛ ſequit intētum ꝙ pũctus talis velocius mouebit per certuꝫ tēpus ſup.a. ꝗ̄ ſup.b.ḡ ſequit ɔcluſio. ¶ Ideo in iſto caſu bene ſequit ꝙ velocius mouet per certũ tēpus localr̄ gradus ſũmus ſup ſpatiũ corrñdens.a.ꝗ̄ ſup ſpatiũ fixum correſpōdēs b.tñ penes id nō habet velocitas inductionis gradus ſũmi attēdi:vt prius argutum eſt. ¶ Itē arguit iſta ɔcluſio ꝙ inductio gradus ſũmi corrñdebit gradui remiſſiori ꝗ̄ in.a.que tñ inductio correſpōdebit gradui ita intēſo in.b. ſicut in.a.Sit enim.a.vniformiter difforme vt pus qḋ rareſiat ad dupluꝫ vniformiter in iſta hoꝛa in qua.a.fiet ſũmum vt prius poſitũ eſt.ꝛ ſit.b.equale.a.ꝛ ɔſilr̄ diſpoſituꝫ cum.a.ꝛ alteret ɔtinue eodē gradu quo.a.ꝛ rareſiat etiã ad duplum:tñ incipiat tardius ꝛ tardius rareſieri ꝗ̄ a.ꝛ intendat rarefactio:ita ꝙ iª latitudo rarefactionis pus ſic acqrit correſpōdeat rarefactioni in.a.quo poſito ſeqt ꝙ vtraqꝫ inductio intēdet ad dupluꝫ.ꝛ inductio iſta in.a. vniformiter:eo ꝙ cōtinue vniformis erit rarefactio:ꝛ inductio in.b.cōtinue velocius ꝛ velocius intēdet: qꝛ rarefactio cōtinue erit velocioꝛ ꝛ velocioꝛ:ergo inductio in.b. cōtinue erit tardioꝛ inductione gradus ſũmi in.a.ꝛ ſequit ꝙ gradui remiſſiori corrñdebit inductio iſta in.b.ꝗ̄ inductio illius gradus in.a. Arguit nūc ꝙ cōtinue tardioꝛ erit inductio gradus ſũmi in.b.ꝗ̄ in.a.qꝛ in.a.vniformiter intēdet ad duplũ:ꝛ in.b. velocius ꝛ velocius intēdet ad duplũ:vt pꝫ.ergo ꝛc̄.Siſlr̄ pars alterãda in.b.cōtinue erit minoꝛ tota pte alterãda in.a.totali:qꝛ ſi aliqñ erit ſibi equalis ꝛ iaꝫ eſt ei equalis:ꝛ tardius ea incipit rareſieri:ſequit ꝙ in illo inſtãti erit velocioꝛ rarefactio in.b.ꝗ̄ in.a.ꝛ in.a. cōtinue manebit rarefactio vniformis: ꝛ in.b.velocioꝛ et velocioꝛ:igit pars alterãda.b.erit maioꝛ poſt illud inſtãs pte alterãda.a.ḡ ante finem hoꝛe erit.b.maius.a.eo ꝙ tãta ɔtinue erit ꝓpoꝛtio ipſius.b.totius ad totuꝫ.a.ſicut partis alterãde.b.ad ptem alterãdaꝫ.a.cōſequēs falſum.ḡ id ex quo ſequit eſt falſum.ſequit ḡ ꝙ velocius ɔtinue inducet gradus ſummus in.a.ꝗ̄ in.b. Et ꝓbo ꝙ eideꝫ gradui corrñdebit inductio in.a.ꝛ in.b.qꝛ ſubta iaꝫ ſunt equalia:

2ᵐ corrᵐ vel ɔclo

ꝛ in fine etiã erũt equalia:ꝛ vtrūqꝫ cōtinue rareſiet vniformiter ſm ſubm:ḡ per tãtum erit gradus ſũmus in fine inductus in.b.ſicut in.a.ɔſequētia tenet ſicut de duobꝰ punctis fluētibus eq̄uelociter cum gradu ſũmo:tūc motꝰ punctoꝝ eidē gradui corrñdebūt:ꝛ per ɔñs inductiones eidē gradui corrñdebūt. ¶ Itē pũctus motus ſup.b.mouebit aliqñ velocius pũcto moto ſup.a.eo ꝙ tardius incipit moueri ꝛ equecito ꝑtrãſibit ſicut alius pũctus.a.ꝛ hoc videt ſeq vbi extremũ intēſius quieſcit:ſed ſi aliud extreᵐ.ſ.remiſſius quieſcat:tunc iſte pũctus velocius incipit moueri ſup.b.ꝗ̄ ſup.a.vt argᵗ pus:ꝛ per ɔñs videt ſequi ꝙ velocius incipet tūc gradus ſũmus induci in.b.ꝗ̄ in.a.cuiꝰ oppoſitũ eſt ꝓbatuꝫ:eo ꝙ pars alterãda.a.ɔtinue erit maioꝛ pte alterãda.b. ¶ Item ſic.capiat id inſtãs in quo rarefactio in.b.erit equeueloꝝ cum rarefactione in.a.ꝛ ſequit ꝙ ſi ab iſto inſtãti vſqꝫ in finē rareſiant eq̄uelociter ſicut rareſieret in illo inſtãti ꝙ cōtinue poſt tale inſtãs intēdet inductio eq̄uelociter in.a.ꝛ in.b.ꝛ etiaꝫ maneret inductio in.b.equeueloꝝ cuꝫ inductione in.a.ſed iam cōtinue poſt tale inſtãs intēdet rarefactio in.b.ḡ inductio cōtinue erit velocioꝛ ꝗ̄ tūc eſt:ꝛ per ɔñs velocius inducet gradus ſũmus in.b.ꝗ̄ in.a.ḡ ſequit cōcluſio. ¶ Pro iſtis dicit ɔcedēdo ꝙ velocius continue inducet gradus ſũmus in.a.ꝗ̄ in.b.qꝛ pars ſua remiſſa ſemꝑ erit maioꝛ pte tota remiſſa b.vt probat in ɔcluſione.ꝛ negat ɔñtia:ꝛ nūc ſunt equalia:ꝛ etiam erũt equalia in fine ꝛ equecito fient ſũma:ḡ inductiones gradus ſũmi in iſta duo eideꝫ gradui correſpōdebũt.poſito enim ꝙ cēnt duo equalia que etiaꝫ in fine tēpoꝛis erũt equalia in quo fient ſũma ꝛ vnũ ſoluꝫ maioꝛet in pte ſũma ꝛ aliud in pte remiſſa:certuꝫ eſt ꝙ multo velocius inducet gradus ſũmus in vnuꝫ ꝗ̄ in aliud:ꝛ ſic nō valet argᵐ de.a.b.qꝛ nō equales inductiones acqrent partibus remiſſis dum fuerim remiſſe:qꝛ ſicut ꝓbatũ eſt velocius ɔtinue inducet gradus ſũmus in.a.ꝗ̄ in.b.ꝛ ad argumētum illud de pũctis mouētibus ſup.a.b.cōcedit qḋ bene ꝓbat ꝙ gradus ſũmus inductus in.b.velocius aliquãdo mouebit acquirēdo de ſpatio fixo ꝗ̄ pũctus correſpōdens in.a.vel gradus ſũmus acqret de ſpatio fixo corrñdēte.a.ꝛ ꝙ totus talis motꝰ gradus ſummi in.b.cadet ad totum talē motuꝫ gradus ſũmi inducti in.a.erit equalis penes quē talem motũ vt predicit gradus ſũmi inductio nō attendit. ¶ Pro 2ᵒ argumēto negat illud:ꝙ ſi ab iſto inſtãti in quo rarefactiōes erũt equales/ſemꝑ rarefactiōes manerēt equales/gradus ſũmus eq̄uelociter inducet poſt in illa duo:qꝛ.b.tūc erit minus.a.cōſilr̄ cuꝫ eo diſpoſitũ:ḡ ſi ſic rareſierēt ad modum loquēdi dictũ.ſ.ꝙ eque ꝓpoꝛtionabilr̄ acquirēt de quãtitate cum inductiones iſte eque ꝓpoꝛtionabilr̄ ſicut quãtitates maioꝛabunt: ſequeret ꝙ inductiones ille eque ꝓpoꝛtionabilr̄ maioꝛarent:ꝛ per ɔſequēs ſicut vna eſſet maioꝛ alia/ita velocius intēderet:ꝛ per ɔſequēs nō equeuelociter tūc intēderent: ꝛ ſic nō procedit argᵐ. ¶ Ex ꝑdictis patet ꝙ ſi ſubm vniformiter difforme terminatũ ad ſũmũ alterãduꝫ vno gradu vniformi quo ad ſubm ꝛ difformiter quo ad tēpus rareſiat difformiter intēderet inductio gradus ſummi:eo ꝙ eque ꝓpoꝛtionabilr̄ intēdet inductio ſicut quãtitas maioꝛabitur. In caſu tñ vbi eſt rarefactio vniformis quo ad tēpus ꝛ difformis quo ad ſubm vniformiter intēderet inductio gradus ſummi.Sit enim.a.vt prius:cuius vniformiter rareſiat quelibet pars ſm tēpus ꝛ ſm ſubm:ꝛ ſit.b. oīno equale ipſi.a.ꝛ cōſilr̄ diſpoſituꝫ ſicut ipm.a.cuius pars remiſſa ɔtinue eq̄uelociter rareſiat cum pte remiſſa a.ꝛ ſic in pte ſũma difformiter rareſiat ſm ſubm:ſic tñ ꝙ totuꝫ.b.eq̄uelociter cōtinue maioꝛet cum toto.a.tūc vniformiter inductio gradus ſũmi in.b.intendet:qꝛ ptes re-

Scḋa regula 2.3.4. in ordine.

miſſe.a.b.ꝯtinue erūt equales ⁊ cōſiliter diſpoſite.cum ḡ
vniformiter intēdet̄ inductio gradus ſūmi in.a.ſequit̄ ꝙ
in.b.vniformiter intēdet̄ ⁊c.qđ fuit ꝓbādū. Stat etiam
difformis rarefactio tam ſm ſubm ꝙ̄ ſm tēpus:ita tamē
ꝙ gradus ſūmi inductio vniformiter intēdet. Sit eniꝫ de
a.vt prius:⁊ ſit.b.oīno.a.ſile alteratū eodeꝫ gradu quo.a.
cuius pars remiſſa ęquelociter ꝯtinue rarefiat cuꝫ pte re-
miſſa.a.⁊ ſit velocior rarefactio in pte ſūma.b.ꝙ̄ in parte
ſūma.a.⁊ ſit velocior ⁊ velocior rarefactio in pte ſūma.b.
ita ꝙ.b.ꝯtinue velocius ⁊ velocius acq̄rat de quantitate.
Iſto poſito inductio gradus ſūmi in.b.erit equeuelox ſicut
inductio gradus ſūmi in.a.vt ꝓus:⁊ in.a.vniformiter:ḡ in
b.vniformiter. Et ꝙ.b.rarefiet difformiter ſm ſubm ꝓꝫ:
q̄a velocior erit rarefactio in pte ſūma.b.ꝙ̄ in pte remiſ-
ſa:q̄a in pte remiſſa erit equeuelox rarefactio ſicut erit p
a.et in pte ſūma erit.b.velocior rarefactio ꝙ̄ in pte ſūma
a.⁊.b.rarefiet difformiter ſm tēpus vt poſitū eſt.ḡ ſequit̄
4ª regla ⁊ 35ª in ordine. ꝯcluſio. ¶ Si vnifor' difforme terminatū ad ſūmuꝫ alte
ratū latitudine vnifor' difformi extremo remiſſiori v̄ſus
extre͞m remiſſius ſubti vnifor' ſm tēpus ⁊ ſm ſubm rare-
fiat in īfinitū remittet̄ inductio gradus ſūmi. Sit eniꝫ.a.
tale:⁊ ſequit̄ ex q̊ vnifor' rarefiet ſm tēpus ꝙ etiam ipſuꝫ
q̄titateꝫ ſolū finitā acq̄ret.ſit ḡ.b.equale ſicut erit.a.in fi-
ne vnifor' difforme latitudine terminatū ad ſūmū:⁊ alte-
ret̄ eadē latitudine qua.a.extremo remiſſiori v̄ſus extre͞m
remiſſius ſubti:tūc ad oīa pūcta correſpōdētia.a.b.equecito
deueniet gradus ſūmus:vt pꝫ.ḡ pars remiſſa.a.continue
ante finē erit minor pte remiſſa.b.ḡ per 9ᵃᵐ ⁊ per 13ᵃᵐ cō-
cluſiones velocius ꝯtinue inducet̄ gradus ſūmus in.b.ꝙ̄
in.a.⁊ per 17ᵃᵐ ꝯnes in.b.remittet̄ inductio gradus ſūmi
ad nō gradū:ḡ etiā in.a.qđ fuit ꝓbādū. Stat tn̄ per tēpus
aliqđ intēſio inductionis gradus ſūmi:dato.n.inſtāti aliq̄:
tūc erit īter pūcta extremalia ptis remiſſe maior latitudo
extēſiue ꝙ̄ nunc eſt inter eadē pūcta:eo ꝙ ad extre͞m intē-
ſius erit velocior alteratio ꝙ̄ ad extre͞m remiſſius:tanta ḡ
ante illud inſtās pōt eē rarefactio ꝙ tūc erit maior ꝓpor-
tio q̄titatis iſtius ptis remiſſe ad quātitatē prehabitaꝫ ꝙ̄
tūc erit latitudinis ad latitudinē:ḡ per 7ᵃᵐ ⁊ 13ᵃᵐ ꝯnes:tūc
velocius inducet̄ gradus ſūmus in.a.ꝙ̄ nūc incipit:eo ꝙ
nūc eſt minor ꝓportio q̄titatis.a.ad quātitatē tūc hīdaꝫ
ꝙ̄ eſt latitudinis extenſe per.a.ad latitudinē in illa pte re
miſſa extēdēdam.⁊ talis poſſet eſſe rarefactio iª ꝙ indu-
ctio gradus ſūmi ꝯtinue intēderet̄ per ꝯſileꝫ ꝓbationem.
ſed tūc nec.ꝯo rarefiet in īfinituꝫ:eo ꝙ ſi ſtabit ad quātita-
teꝫ finitā infinite remittet̄:vt argutū eſt. ¶ Cōtra p̄dicta
3 p̄dcās regulas. arguit̄ ſic. Datis ꝯnibus 3ª ⁊ 4ª:ſequit̄ inductionē aliquā
manere ꝯtinue vniformem:⁊ tn̄ remitti ad nō gradū.hoc
includit ꝯdictionē:vt notuꝫ eſt. Et iſtud arguit̄ ſequi. Sit
enim.a.vniformiter difforme terminatū ad ſūmuꝫ altera
tuꝫ vno gradu vniformi qui remittat̄ vniformiter ad nō
gradū in eodē tp̄e in quo rarefiat ad dupluꝫ vniformiter
ſm tēpus ⁊ ſm ſubm:tūc per ꝯnem 30ᵃᵐ ſi non rarefieret
inductio remitteret̄ vniformiter ad nō gradū.⁊ per 14ᵃᵐ
ſi non remitteret̄ alteratio inductio gradus ſūmi vnifor'
intēderet̄ ad duplū:ḡ iª rarefactio tātuꝫ faciet ad intēſio-
neꝫ inductionis gradus ſūmi ſicut alia remiſſio alteratio-
nis ad remiſſionē inductōis gradus ſūmi:⁊ per ꝯñs vni-
formiter inducet̄. Et ꝙ in īfinituꝫ remittet̄ arguit̄ ſic. Sit
a.tale vt prius:⁊ ſit.b.tāte quātitatis ſicut erit.a.in fine ea-
dem latitudine alteratū ꝯtinue ęquelociter cum.a.ſed nō
rarefiat.b.tūc velocius cōtinue inducet̄ gradus ſūmus in
b.ꝙ̄ in.a.eo ꝙ pars eius alterāda cōtinue erit maior pte
alteranda.a.et per 30ᵃᵐ ꝯnem inductio gradus ſūmi in.b.
vniformiter remittet̄ ad nō gradū:ḡ in.a.remittet̄ ad nō
gradū. ¶ Pro iſto cōcedit̄ 2ª pars:⁊ negat̄ ꝙ illa indu-
ctio manebit vniformis:q̄a illa rarefactio minus cōtinue
faciet:⁊ remiſſio alterationis cōtinue plus ⁊ plus. Nā ſint
infinita ita ꝙ ſub qualibet quātitate inter quātitatē quaꝫ
nūc habet.a.⁊ quā habet in fine:ſit aliqđ vniformiter dif-
forme ꝯſilr̄ diſpoſitū cum.a.quoꝝ qđlibet alteret̄ ꝯtinue
ſicut.a.⁊ ſequit̄ ꝙ iſta remiſſio alterationis in maiori pluſ
ꝯtinue faciet ꝙ̄ in minori:eo ꝙ in qđlibet iſtoꝝ remittet̄
inductio gradus ſūmi ad nō gradū vniformiter:⁊ tātū cō-
tinue faciet in.a.ſi nō eſſet rarefactio ſicut in ſubm tūc ſi-
bi equale vt notū eſt.igit̄ iſta remiſſio alterationis plus ⁊
plus ꝯtinue ad totius inductionis remiſſioneꝫ faciet:et ſic
oīno arguet̄ ex alia pte ꝙ iſta rarefactio cōtinue minus ⁊
minus faciet:⁊ ſequit̄ ꝙ tota inductio continue remittet̄.
¶ Pro quo ponit̄ hec ꝯcluſio. Si aliqđ vnifor' difforme 5ª regla 55. 56. in ordine.
terminatū ad ſūmum alteratū vno gradu vniformi vni-
formiter rarefiat quo ad ſubm cuius alteratio cōtiᵉ eque
ꝓportionalr̄ remittat̄ ſicut quātitas maiorabit̄ manente
alteratione vniformi quo ad ſubm inductio gradus ſūmi
ꝯtinue manebit vniformis. Sit enim tale.a.ſicut ponit̄ in
ꝯne:⁊ arḡ ꝙ inductio ꝯtinue manebit vniformis ⁊ eque-
uelox ſicut in pn̄ᵒ:q̄a ſi nō:ſit id inſtās.b.⁊ ſit.c.pars ꝓtūc
remiſſa:⁊ ſit quātitas.a.tūc in.f.ꝓportione maior ꝙ̄ nunc
eſt.⁊ ſic ſilr̄ ſit.a.alteratio in.f.ꝓportione minor ꝙ̄ in pn̄ᵒ:
⁊ arguit̄ ꝙ tūc gradus ſūmus ęquelociter inducet̄ in.c.ſi-
cut nūc in.a. Sit enim.d.ꝯſilr̄ oīno diſpoſitū ſicut erit tūc
c.⁊ etiam equalis quātitatis ſicut tūc erit ipm̄.c.alteretur
tn̄ eodē gradu quo.a.⁊ arguit̄ ſic.a.eſt vniformiter diffor
me:ḡ ꝓpor' ſicut.c.eſt minus.a.ita habet minorē latitudi-
nem extēſiue ⁊ alterabit̄ iº gradu vniformi:ḡ in.c.ꝯtinue
manebit equalis latitudo extenſiue ſicut nūc eſt in ipſo.c.
ꝯñia pꝫ per ꝯnem 3ᵃᵐ. Si ḡ.d.eſſet tāte quātitatis ſicut.c.
in pn̄ᵒ:tūc ęquelociter inducet̄ gradus ſummus in.d.ſicut
in pn̄ᵒ in.a.ꝯñia tenet per ꝯnem 5ᵃᵐ.eo ꝙ tūc eſſet tāta ꝓ-
portio quātitatis.a.ad quātitatē.d.ſicut latitudinis ad la-
titudinē:ſed nūc in.f.ꝓportione velocius inducet̄ gradus
ſūmus in.d.ꝙ̄ tūc induceret̄:eo ꝙ nūc eſt in.f.ꝓportione
maius ꝙ̄ tūc eſſet:q̄a eſt in.f.ꝓportione maius ꝙ̄ eſt.c.in
pn̄ᵒ:ḡ nūc in.f.ꝓportione velocius inducet̄ gradus ſūmuſ
in.d.ſicut in pn̄ᵒ in.a.⁊ in.f.ꝓportione tūc tardius inducet̄
in.c.ꝙ̄ in.d.eo ꝙ.c.⁊.d.erūt tūc ſilia qualitatiue ⁊ quātita-
tiue:⁊ alteratio in.a.erit in.f.ꝓportione minor alteratione
in.d.ḡ tūc ęquelociter inducet̄ gradus ſūmus in.c.ſicut nūc
incipit in.a.⁊ tūc equeuelociter inducet̄ gradus ſūmus in
a.ſicut in.c.eo ꝙ.c.tūc erit pars.a.⁊ ęquelociter inducetur
in totū ſicut in pte:m:ḡ tunc equeuelociter inducet̄ in.a.ſi-
cut nūc incipit:⁊ ſic de omni alio inſtāti eſt arguēdū:ergo
per.a.gradus ſūmus vniformiter inducet̄:qđ fuit probā-
3 regla. dum. ¶ Cōtra hāc ꝯcluſionē arguit̄ tripl'r. Primo ſic. ſit
a.vniformiter difforme pedale alteratū vno certo gradu:
cuius alteratio remittat̄ vniformiter ad non gradū in eo
tēpore in quo fiat ſūmum ⁊ rarefiat in infinitū.ſ.eque ꝓ-
portionabiliter ſicut alteratio remittet̄.quo poſito arguit̄
ſic. Cōtinue ante finē erit ſolū pars finita iſtius.a.ſumma
exquo vniformiter inducet̄ per ꝯclonē:⁊ tunc in fine erit
totuꝫ ⁊ etiā quelibet eius pars īfinitum modica:eo ꝙ erit
vniformis rarefactio quo ad ſubm:ḡ ſubito per īfinitum
inducet̄ in.a.⁊ per ꝯſequēs in īfinituꝫ velociter aliquādo
inducet̄ in.a.⁊ ſi ſic nō cōtinue vniformiter. ¶ Scđo ar-
guit̄ ſic. Sint īfinita:quoꝝ pᵐ ſit duplum ad.a.⁊ 2ᵐ duplū
ad pᵐ:⁊ ſic in īfinitum.⁊ ſit qđlibet illoꝝ vniformiter dif-
forme terminatū ad ſūmum eadē latitudine cum.a.⁊ alte
rent̄ oīa illa cōtinue equeuelociter cum.a.⁊ nō ſit rarefa-
ctio in illis.quo poſito arguit̄ ſic. Infinite velocius ꝯtinue
inducet̄ per aliqđ iſtoꝝ gradus ſūmus ⁊ equeuelociter cō-
tinue inducet̄ in.a.ſicut in aliqđ illoꝝ qđ erit ſibi equale:

⁊.a.erit equale cuilibet illoꝝ ex quo iſinitum maiorabit̃: ergo iſinite velociter aliquã inducet̃ gradus ſũmus in.a. Aliis arguit̃ ſic. 2ᵐ iſtoꝝ cõtinue erit duplum ad pᵐ ⁊ 2ᵐ ad 3ᵐ: ⁊ ſic in iſinitũ: ergo iſinite velociter cõtinue inducet̃ in aliqđ iſtorum. Et ꝙ cõtinue equevelociter inducet̃ in.a. ſicut in aliqđ illoꝝ cum.a. fuerit ſibi equale arguit̃ ſic. Cum fuerit.a. equale alicui illoꝝ tũc erit pars remiſſa.a. iſtius equalis pti remiſſe alterius: quia ad oĩa pũcta correſpõdẽtia coꝝ equecito deueniet gradus ſũmus. cum ergo ptes oĩum illoꝝ remiſſe ⁊ pars remiſſa.a. cõtinue erit vniformiter difformis eadeʒ latitudine: ſequit̃ ꝙ equevelociter cõtinue inducet̃ gradus ſũmus in.a. ſicut in aliqđ illoꝝ: cum fuerit ſibi equale. ſequitur ergo ꝙ in.a. iſinite velociter inducet̃ gradus ſũmus: ⁊ per ↄ̃ns nõ ↄtinue vnifor'.

3° ℭ Tertio arguit̃ ſic. Ponat̃ de.a. vt prius: ⁊ capio gradũ illuʒ ſcilʒ.c. cui correſpõdebit tota alteratio.a. vt deꝑdit̃: ⁊ ſit.b. oĩno ſiĩe ipſi.a. tã qualitatiue ꝙ̃ quãtitatiue qđ maioret̃ in iſinitũ equevelociter cum.a. ⁊ alteret̃.b. ↄtinue.c. gradu. tũc ſic arguit̃. Eideʒ gradui correſpõdebit inductio gradus ſũmi in.b. ſicut in.a. ⁊ in.b. iſinito gradui corrñdebit: igit̃ in.a. infinito gradui correſpõdebit. ↄ̃ña pʒ ⁊ maior ſic arguit̃.a.b. ſunt oĩno equalia: ⁊ ↄtinue erũt equalia ⁊ equecito fiet.a. ſũmum ſicut.b. ergo eidẽ gradui corrñdebit inductio gradus ſũmi in.b. ⁊ in.a. Aliis arguit̃ ſic. nam alterationes.a.b. eidem gradui correſpondebũt: ⁊.a. ⁊.b. equalr̃ diſtãt a ſũmo: ergo equecito fiet.a. ſũmuʒ ſicut.b. ↄ̃ña tenet vt cõſtat. ſequit̃ ergo ꝙ eideʒ gradui corrñdebit inductio gradus ſũmi in.b. ſicut in.a. Et ꝙ infinito gradui corrñdebit inductio gradus ſũmi in.b. pʒ. nam in omni pte ꝓportionali iſtius tpis cõputãdo minores v̈ſus fineʒ vniformiter remittet̃ alteratio in.a. ad ſubduplũ: ⁊ eque ꝓportionabilr̃ maiorabit̃ quãtitas tam.a. ꝙ̃.b. ſicut remittet̃ alteratio.a. ergo in omni pte ꝓportionali iſtius tpis maiorabit̃ quãtitas.b. ad dupluʒ: ⁊ in pte omni erit ↄſilr̃ diſpoſitio: ergo in duplo maior erit quãtitas.b. in 2ª pte ꝓportionali tẽporis ꝙ̃ in pª: ⁊ in duplo maior in 3ª ꝙ̃ in 2ª: ⁊ ſic in iſinituʒ: ⁊ eque ꝓportionabilr̃ maioratur inductio gradus ſũmi in.b. ſicut eius quãtitas: vt pʒ per 34ᵃᵐ ↄ̃nem: ergo in duplo velocius inducet̃ gradus ſũmus in.b. in 2ª pte ꝓportionali iſtius tpis ꝙ̃ in pma: ⁊ in duplo velocius in 3ª ꝙ̃ in 2ª: ⁊ ſic in iſinituʒ: ergo iſinito gradui correſpõdebit inductio gradus ſũmi in.b. qđ fuit ꝓbãduʒ. Sequit̃ igit̃ ꝙ iſinito gradui corrñdebit in.a. ergo infinite velox erit aliquãdo. ℭ Pro iſto dĩ ↄcedẽdo ↄcluſionẽ: ſicut argᵐ ſatis demõſtrat. ⁊ ad pᵐ argᵐ in oppoſituʒ negat̃ hec ↄ̃ſequẽtia: cõtinue ante finem erit gradus ſũmus inductus per finitum ſolũ ⁊ in fine per iſinitum: ergo iſinite velociter ſubito inducet̃. Sit enim.a. aliqđ vniformiter difforme terminatum ad ſũmum alteratũ vno gradu vniformi quo fiat ſũmum in hora: ⁊ ponat̃ ꝙ fiat rarefactio ptis ſũme ſolũ: ita tamẽ ꝙ totum rareſiat in iſinitum: quo poſito totũ in fine erit iſinite ſũmuʒ per totũ: ⁊ tamẽ equevelociter ꝓcise inducet̃ gradus ſũmus in ipſuʒ ſicut nũc eo ꝙ nulla erit rarefactio in pte remiſſa: ⁊ rarefactio in pte ſumma nihil ad intẽſionẽ inductionis gradus ſũmi faciet: vt ꝓdictum eſt. Et ideo non valet argᵐ: ⁊ ſic in argumẽto ꝓncipali. vʒ. pti remiſſe.a. ꝙ̃diu fuerit remiſſa ſolũ pedalis quãtitas acquiret̃: ⁊ iſinita quantitas acquiret̃ pti ſũme poſtꝙ̃ fuerit ſumma: ideo non ſequit̃ ꝙ inductio erit iſinita. Antecedẽs arguit̃ ſic. In hora gr̃a argumẽti.a. poſſet fieri ſũmũ mediãte latitudine alterationis nũc habita: que vniformiter remittet̃ ad nõ gradum: ergo nũc fiet ſũmuʒ in duabus horis: ⁊ inductio manebit equevelox ↄtinue ſicut nũc incipit eẽ vt argutum eſt: ⁊ mediãte iſta inductione ſoluʒ fiet pedale ſũmuʒ in hora: ergo in illis duabus horis quãtitas per quã inducet̃ anteꝙ̃ fuerit ſũma erit ſolum bipedalis: ⁊ per totum prehabitũ ⁊ acgrẽdum pti remiſſe dum erit remiſſa inducet̃ gradus ſũmus per ꝑarguita: ⁊ quãtitas nũc habita eſt pedalis: ergo ſoluʒ acquiret̃ pedale pti remiſſe: ipſa manẽte remiſſa: ⁊ ſic nõ ſequit̃ ꝙ iſinite velociter inducetur gradus ſũmus in.a. Aliter tamẽ cõcedi põt ꝙ per iſinituʒ inducet̃ gradus ſũmus in.a. qa gradus ſũmus inducet̃ per idem qđ erit iſinituʒ in.a. ex quo nõ ſequit̃ ꝙ gradus ſũmus iſinite velociter inducet̃ in.a. qa id maiorabit̃ in iſinitum poſtꝙ̃ erit ſũmuʒ. ℭ Ad 2ᵐ argᵐ dicit̃ admittẽdo caſum. ⁊ negat̃ ↄ̃ſequẽtia: iſinite velociter inducetur gradus ſũmus ↄtinue in aliqđ iſtoꝝ: ⁊ equevelociter in.a. ſicut in aliqđ illoꝝ cum illud fuerit equale.a. ergo iſinite velociter inducet̃ ⁊c. qa in quolibet iſtoꝝ remittet̃ inductio ad nõ graduʒ vt patet: eo ꝙ alteratio in ꝗlibet iſtoꝝ vniformiter remittet̃ ad nõ graduʒ deductis aliis motibus: ⁊ in.a. vt argutuʒ eſt manebit vniformis: ergo inductio in.a. erit inductioni in ꝗlibet iſtoꝝ equalis aliquãdo: ⁊ ſic nõ valet argᵐ. Exẽpluʒ ad hoc. ſit.a. vnum pedale: ⁊ ſint iſinita: quoꝝ pᵐ ſit duplum ad.a. ⁊ 2ᵐ dupluʒ ad pᵐ: ⁊ ſic in iſinitum: ⁊ diminuat̃ ꝗlibet iſtoꝝ iſinitoꝝ ad nõ quãtũ in iſta hora vniformiter manẽte ſemꝑ.a. ⁊ diminuatur 2ᵐ in duplo velocius ꝙ̃ pmũ: ita ꝙ ſemꝑ ſit 2ᵐ in duplo maius pmo: ⁊ ſic in iſinitum: tũc iſinite magnum cõtinue erit aliqđ illoꝝ: ⁊.a. cuilibet iſtoꝝ eſt equale in illa hora: eo ꝙ ꝗlibet iſtoꝝ diminuet̃ in tota hora ad nõ gradum quãtitatis: ⁊ tamẽ nõ ſequit̃ ꝙ in iſinitum maiorabit̃ quãtitas.a. pedalis: imo illa ſtabit ↄtinue ſub pedali quãtitate: ita intelligẽduʒ eſt de inductiõe gradus in iſta iſinita: qa licʒ iſinita cõtinue erit aliquãdo inductio: tamẽ in quodlibet remittet̃ inductio ad nõ gradũ: qa iſta inductio manẽs vniformis in.a. erit in iſto tẽpore equalis cuilibet iſtoꝝ: et ſic nõ ꝓcedit argᵐ. ℭ Ad 3ᵐ argᵐ negat̃ hec ↄ̃ſequẽtia: finito gradui correſpõdebit inductio gradus ſũmi in.b. ⁊ alterationes.a.b. eidẽ gradui correſpõdebũt: ⁊ quãtitates illoꝝ ſunt ⁊ ſemꝑ erũt equales: ergo infinito gradui correſpõdebit in.a. ⁊c. qa licʒ tota quãtitas.a. ſemꝑ erit equalis toti quãtitati.b. iſinite minor aliquã erit pars remiſſa.a. pte remiſſa.b. ⁊ ſic maior quãtitas acqret̃ pti remiſſe.b. ꝙ̃ pti remiſſe.a. ⁊ ſic nõ valet argᵐ. ℭ Aliis arguit̃ ſic. Per inductioneʒ gradus ſũmi in.a. ſoluʒ inducet̃ per bipedale ſequeſtrata pte acqſita parti ſũme ipſa exiſtẽte ſũma: vt argutuʒ eſt. ergo aliquãdo per aliquãtuʒ diſtabit gradus ſũmus ab extremo remiſſiori.a. ⁊ aliquãdo per induplo minus: et ſic deinceps. ↄ̃ſequẽtia nota eſt: ⁊ gradus ſũmus in.b. per pedale cõtinue diſtabit ab extremo remiſſiori eius. Naʒ pars remiſſa.b. ſicut totum.a. in omni pte ꝓportionali maiorabit̃ ad duplũ. cum ergo nũc totũ ſit pedale: ſequit̃ ꝙ in inſtãti medio: ⁊ in fine pme ptis ꝓportionalis erit totum.b. bipedale: ad cuius pũctuʒ mediũ tũc deueniet gradus ſummus: eo ꝙ alteratio cõtinue manebit vniformis: ergo tũc gradus ſũmus diſtabit ab extremo remiſſiori per pedale: ⁊ ſi ſic cum in ſcđa pte ꝓportionali maiorabit̃ pars remiſſa ad duplum: ad cuius pũctum mediuʒ tũc deueniet gradus ſũmus: patet ꝙ in fine iſtius tertie ptis ꝓportionalis diſtabit gradus ſũmus ab extremo per pedale: ⁊ ſic de omni parte poſteriori eſt arguẽdum: eo ꝙ in omni tali pte maiorabit̃ quelibet eius pars ad dupluʒ: in cuius pncipio erit pars eius remiſſa pedalis: et in eius fine erit ad pũctum mediuʒ iſtius ptis gradus ſũmus. ſequit̃ ergo ꝙ iſinituʒ maior erit aliquãdo quelibet pars remiſſa.b. parte remiſſa.a. ℭ Item põt argui ꝙ in iſinitum minorabit̃ pars remiſſa.a. nam ſit gradus alterationis quo nũc alterabit̃ vt 4ᵒʳ: ⁊ ſequit̃ ꝙ.b. alterabit̃ gradu vt duo ↄtinue: tũc ſic arguit̃. in prima parte ꝓportionali remittet̃ alteratio.a. vniformiter vſqꝫ ad duo: ergo correſpõdebit gradui vt

Nota hic qđ ſi aliquid in iſti[us] rarefias vniformiter ſic inductio remittit̃ per[…] remiſſe ſolũ finita quantitas acqrit̃.

Nota pulchraʒ ſpeculationẽ.

tria.cum ģ per medietatē.b.tūc erit gradus ſūmus:ſequiť ꝙ per tres 4tes.a.tūc erit gradus ſūmus:⁊ totū.a.tūc erit bipedale:ģ gradus ſūmus tūc diſtabit ab extremo remiſſiori.a.per ſemipedale.Ex quo ſic arguiť in ſcḋa medietate tēporis fiet id ſemipedale ſūmum:⁊ tota eius alteratio tūc corrn̄debit gradui vt vnum:eo ꝙ remitteť vniformiter a duobus vſq; ad nō gradū:⁊ ſi ſic mediāte gradu vt vnū in 2a pte ꝑportionali iſtius tpis deueniet gradus ſūmus ad pūctum mediū iſtius ſemipedalis:⁊ in iſta 2a pte ꝑportionali remittetur alteratio.a.vniformiter a duobus vſq; ad vnū:ģ corrn̄debit gradui medio iter duo ⁊ vnū qui gradus eſt ſexqalterus ad gradū vt vnū:ģ in inſtāti medio erūt tres quarte iſtius ſemipedalis ſūme qḋ ſemipedale in fine iſtius ſcḋe ptis ꝑportionalis fiet pedale:ģ tunc gradus ſūmus diſtabit ab extremo iſtius ptis totius ſm ſe totā remiſſe per 4tam pedalis.⁊ ſic arguēdū eſt de omni alia pte ꝑportionali.ſ.ꝙ in fine iſtius ptis erit tota pars remiſſa in duplo minor ꝙ̄ in pn° eiuſdem:eo ꝙ mediāte gradu quo alterabiť in pn° alicuius ptis ꝑportionalis fiet ipſa pars ſūma in fine eiuſdem:ga mediāte gradu ſubduplo fieret ſūma in toto tpe ſequēti:⁊ in omni parte ꝑportionali corrn̄debit alteratio gradui in ſexqtertio remiſſiori ꝙ̄ in pn° eiuſdē:ex quo vniformiter remitteť ad ſubduplū:ģ in omni parte ꝑportionali fient tres quarte iſtius ptis in pncipio remiſſe ſūme:⁊ in ſcḋa pte maiorabiť pars remiſſa ad duplū:ģ in fine cuiuſlibet ptis ꝑportionalis diſtabit gradus ſummus plus ꝙ̄ in duplo minus ab extremo remiſſiori ꝙ̄ in pncipio eiuſdē:⁊ gradus ſūmus in.b.cōtinue diſtabit ab extremo remiſſiori per pedale:ģ īfinite maior erit aliquādo pars remiſſa.b.ꝙ̄ pars remiſſa.a.⁊ per cōſequēs īfinite velocius acqret de quātitate:eo ꝙ per oēs ptes equales equaľr acqret de quātitate:vt ſic pōt argui. In tota pte remiſſa tam.a.ꝙ̄.b.manebit latitudo equalis extēſiue ſicut in pn°:vt pꝫ per 3am regulam:eo ꝙ vtrūq; alterabiť gradu vniformi.cum ģ quelibet pars.a.equalē habeat latitudinē ſicut pars equalis b.eo ꝙ ſunt vniformiter difformes eadē latitudine ⁊ equaliter ita cōſiľr rareſiunt:ģ extremū remiſſius ptis remiſſe.a.cōtinue per tantum diſtabit a ſūmo ſicut extremū remiſſius ptis equalis.b.ſꝫ extremū remiſſius.a.īfinite erit ꝑpinquius gradui ſūmo ꝙ̄ extremū remiſſius.b.erit ꝑ tūc:patet:eo ꝙ ad extrema remiſſa.a.b.in eodē inſtāti deueniet gradus ſūmus.ſ.in fine tēporis:⁊ in īfinitū remiſſior aliquādo erit alteratio ad extremū remiſſius.a.ꝙ̄ ad extremū remiſſius.b.eo ꝙ in.a.remitteť alteratio ad nō gradū manēte alteratione vniformi in.b.ergo īfinite minor erit aliquādo pars remiſſa.a.pte remiſſa.b.qḋ fuit ꝓbādū. Et ideo nō ſequiť ꝙ eidem gradui corrn̄debit inductio gradus ſūmi in.a.⁊ in.b.eo ꝙ ptibus eoꝝ remiſſis dum remiſſe fuerint quātitates equales nullatenus acqrētur. ¶ Si aliqḋ ſubm vniformiter difforme terminatum ad ſūmū alteratū vno gradu vniformi condēſeť vniformiter quo ad ſubm:ita ꝙ quelibet pars equalis equaliter deperdat de ꝗtitate ⁊ eque ꝑpor' maioreť alteratio manēs vniformis quo ad ſubm ſicut minorať quātitas inductio gradus ſūmi cōtinue manebit vniformis:ga ſi nō:ſit.a.tale:vt ponit aīs iſtius ꝯditionalis:⁊ arguiť ꝙ ꝯtinue equeuelociter induceť gradus ſūmus ſicut nūc incipit induci:ga ſi nō:ſit.b.tale inſtās in quo etiā ſit.c.pars ꝑtūc remiſſa:que etiā tūc ſit in.f.ꝑportione minoris ꝗtitatis ꝙ̄ nūc eſt:⁊ arguiť ꝙ in.c.tunc equeuelociter induceť gradus ſūmus ſicut nūc incipit in.a.Sit enim.d.tāte quātitatis ꝑciſe ſicut nūc eſt.c.vniformiter difforme terminatū ad ſummū equali latitudine:ſicut in.b.inſtāti erit.c.vnifor' difforme:⁊ ſit nūc gr̄a argumēti.b.inſtās:⁊ tūc ſic arguiť. Equeuelociter induceť gradus ſūmus in.d.ſicut in pn° inducebať in.a.ga ponať ꝙ eodē gradu altereť.d.quo gradu alterabiť.a.in pn°:ga ſicut.d.eſt minus.a.quātitatiue ⁊ minori latitudine extēſiue eſt vniformiter difforme alteratōe terminatū ad ſūmū:ģ mediāte equali latitudine equeuelociter induceť gradus ſūmus in.d.ſicut in.a.ꝯñtia tenet per 6am ſuppōnē cum ſuo aņte. Nam.c.in pn° habuit tātā latitudinē ſicut nūc habet:⁊ nūc habet tātā.c.ſicut.d.igiť d.nūc habet tātā ſicut in pn° habuit.c.⁊ ſicut.c.fuit minus a.ita habuit minorē latitudinē:⁊.d.eſt tātū ſicut in pncipio fuit.c.ģ habet tātam latitudinē minōrē ꝙ̄ habuit.a.in pn° in qua ꝑportione fuit minus.a.Sequiť ģ ꝙ equeuelociter induciť gradus ſūmus in.d.ſicut in pn° in.a.⁊ eq̄uelociter in.d.ſicut in.c.qḋ ſic arguiť. Si.c.foret alteratū eodē gradu quo.d.in.f.ꝑportione tardius induceť gradus ſūmus in.c.ꝙ̄ in.d.eo ꝙ ſunt vniformiter difformia eadē latitudine terminata:⁊.c.eſt in.f.ꝑportione minus.d.ſꝫ nūc in.f.ꝑportione velocius induciť in.c.ꝙ̄ tūc induceretur:ergo nūc eq̄uelociter ſicut in.d.⁊ minor pꝫ:ga alteratio.c.eſt in.f.ꝑpor' maior ꝙ̄ tūc eſſet.pꝫ ģ ꝙ in.b.inſtāti eq̄uelociter induceť gradus ſūmus in.c.ſicut in pn° incipit induci in.a.⁊ eq̄uelociter tunc induceť in.a.ſicut in.c.eo ꝙ tunc.c.erit pars.a.⁊ eq̄uelociter induciť gradus ſūmus in totū ſicut in ptes eius:ſequiť ģ ꝙ in.a.vniformiter ꝯtinue induceť gradus ſūmus. Sicut.n.arguitū eſt de.b.inſtāti:ita de omni alio inſtāti eſt arguēdū. ¶ Cōtra iſtud ſic arguitur. 3 regm Ponať ꝙ.a.vnifor' difforme terminatū ad ſūmū alteratū vno gradu vniformi:⁊ cōdēſeť ad nō quātum vniformiter quo ad tēpus ⁊ quo ad ſubm:ita ꝙ in omni pte ꝑportionali iſtius hore diminuať vnifor' ad ſubduplū:⁊ intēdať alteratio equeꝑpor' ſicut minorať ꝗtitas:tunc ꝓbo ꝙ nō vnifor' induceť gradus ſūmus:ga īfinite velociter induceť:eo ꝙ mediāte aliq̄ alteratione aliqualr velociter induceť:⁊ mediāte alia in duplo velocius:⁊ ſic deincepꝫ.cum ģ īfinite velociter alterabiť īfinite velociter induceť gradus ſūmus. ¶ Ideo negať ꝯñtia:ga lꝫ īfinite velox erit alteratio,īfinite modica erit pars alterāda ante finem.⁊ ideo nō ſequiť ꝙ īfinite velociter induceť gradus ſūmus ante finē.ideo ⁊c. ¶ Iſta rn̄ſio nihil facit:ga capio latitudinē quam acqret in pma pte ꝑportionali hore:⁊ ſit gr̄a argumēti vt duo:tūc ſubito acqret tātā latitudinē ⁊ nō quādo pars per minus diſtabit a ſūmo ꝙ̄ per duo:ga tūc intēdeť vltra ſūmum:ģ in pte diſtāte a ſūmo per 2a ſubito acqreť. Et capio ģ id inſtās in quo extremū a.diſtabit a ſūmo per duo:tūc capiať pars ꝑtūc ſm ſe totam remiſſa:tūc ſi ad extremū ſubito deueniet gradus ſūmus:⁊ ad oēm pūctum itrinſecū equecito ſicut ad extremum remiſſius vel citius:eo ꝙ alteratio vndiq; erit equalis:ģ per totā illā ptem.a.tūc ſubito induceť gradus ſūmus:⁊ per ꝯñs īfinite velociter. Maior pᵒ ꝯñtie pꝫ.vꝫ.ꝙ ſubito acqret duo:ga alteratio in 2a pte ꝑportionali tpis erit in duplo velocior ꝙ̄ in pma:⁊ ſic in īfinitū.ergo in omni pte ꝑporli tātā latitudinē acqret ſicut in pa:⁊ in īfinitū modica eſt aliqua pars ꝑporlis:ģ in infinito modico tpe acqret duo:⁊ ſi ſic:ģ ſubito. Aṅs pꝫ:quia quātitas.a.erit in duplo minor in 2a pte ꝑportionali ꝙ̄ in prima:⁊ ſic deinceps vt ponit caſus.⁊ ſicut ꝗtitas erit minor:ita alteratio erit velocior:ģ alteratio.a.erit in duplo velocior in 2a pte ꝑportionali iſtius tēporis ꝙ̄ in pa:⁊ ſic in īfinitum:qḋ fuit ꝓbādū.ģ ꝯcluſio nō eſt vera. ¶ Ex caſu iſto tn̄ ſequiť ꝙ extremū remiſſius.a.per īfinitū diſtat a ſūmo:ꝙ ga acqret latitudinē īfinitā ⁊ nullā niſi illam per quā diſtat a ſūmo.ģ ⁊c. Maior pꝫ:ga in omni pte ꝑporli tātam latitudinē acqret ſicut in pa. ¶ Pro pa ꝯcediť caſus.⁊ hoc qn̄cūq; intēdeť alteratio in.a.ſed.a.fiet ſūmū antequā diminueť ad nō quātum:qz

6a regule 37a in ordine.

minoqꝫ aliter ſequeret̄ ꝙ per infinitā latitudinē diſtaret a
ſummo vt arguit̄ eſt: eo ꝙ in omni parte ꝓportionali acq̄
ret tantā latitudinē ſicut in p̄ma: et ideo nunq̄ꝫ intendet̄ al/
teratio in infinitū: qꝛ nō per oēm partē ꝓportionalē hui⁹
hore intēdet̄. Nā alteratio in p̄ma parte ꝓportionali ali/
cui gradui correſpōdebit mediante qua pōt aliqua latitudo
acquiri in illa pte: ideo ſi extremū remiſſius diſtet a ſūmo
preciſe per tātū ſicut pōt acqri mediāte illa alteratione: in
p̄ma parte ꝓportionali fiet ſummū: et ſi per duplā latitu/
dinē diſtet a ſummo: in ſcd̄a parte ꝓportionali fiet ſūmū
et ſic deinceps. cū ergo per finitū diſtet a ſummo in partib⁹
ꝓportionalib⁹ finitis fiet ſummū: et ſic nō ſequit̄ ꝙ īfinite
velociter alterabit̄: qꝛ non alterabit̄ quouſqꝫ quātitas di/
minuet̄ ad nō q̄ntū. ſed ſi arguit̄ eque ꝓportionabilr̄ cōti/
nue intēdet̄ alteratio ſicut minorat̄ quātitas ꝓcedit̄: qꝛ. ſ.
manebit alteratio: ſed hoc nō erit verū in fine. ⁋ Conſilr̄
ſoluit̄ ſcd̄m argumētum qd̄ arguit̄ ꝙ ſuḃtio acqret bina/
riū: qꝛ in omni parte ꝓportionali acquiret binariū: quia
illud eſt falſū: eo ꝙ infinite ſunt partes ꝓpor^les in quarū
nulla intendet̄: et ſic ſoluit̄ argumētū: ſed ſtaret ꝙ diminu/
tio alia iſtius vniformis quo ad ſubiectū vna cū eque ꝓ/
portionali intēſione alterationis: ita ꝙ fiat ſummū in eodē
tpe preciſe in quo erit diminutū ad nō q̄ntū: qꝛ vt ꝓbatū
eſt ꝯclōne 25ª: ita pōt latitudo alterationis īfinita acqri ꝙ
correſpōdeat gradui finito. ponat̄ ergo ꝙ alteratio in. a. manens
vniformis intēdat̄ in infi^m: ita ꝙ correſpōdeat gradui finito:
et fiat ſummū in illo tpe in quo fiet hō intenſio et diminuat̄
eque ꝓpor^r ſicut intendet̄ alteratio: et ſequit̄ ex quo altera/
tio intēdet̄ in infi^m ꝙ totum diminuet̄ ad nō q̄ntū: et in illo
8ª regula 38ª in ordine. eodē tpe fiet ſummū qd̄ fuit ꝓbādū. ⁋ Si aliqd̄ vnifor/
miter difforme terminatū ad ſummū latitudine vnifor^r
difformi alteratū extremo remiſſiori alterationis verſus
extremū remiſſius ſubiecti rareſiat vnifor^r quo ad ſubie/
ctū et eque ꝓpor^r remittat̄ alteratio per totū: nūc per totā
partē ſm̄ ſe totā remiſſā inductio gradus ſūmi remittet̄.
Sit de. a. vt ponit̄ in antecedente iſtius cōditionalis et ar/
guit̄ ſic. Continue poſt hoc plus tardius inducetur gradus
ſumm⁹ q̄ nūc incipit īduci: qꝛ ſi nō: ſit. b. aliqd̄ inſtās poſt
hoc qd̄cūqꝫ volueris: et ſit. c. pars ſm̄ ſe totā remiſſa termi/
nata ad ſummū: et ſit nūc tale inſtans grā argumēti: et ſit. d.
oīno ſilr̄ et tā q̄litatiue q̄ quātitatiue et alteret̄ eadē lati/
tudine alterationis qua in p̄n⁰ alterabat̄. a. et ſit. f. ꝓportio
quātitatis. a. ad quātitatē. a. p̄cedebitā: et ſimilr̄ alterationis
ad alterationē: quo poſito ex quo cōtinue. c. alterabit̄ lati/
tudine vnifor^r difformi extremo itēſiori verſus extremū
intenſius ſubiecti: ſequit̄ ꝙ latitudo in. c. maiorabit̄ extē/
ſiue: eo ꝙ velocius intendet̄ extremū intēſius q̄ extremū
remiſſius: ſequit̄ ꝙ. d. eſt vnifor^r difforme maiori latitudi
ne q̄ fuit. c. in p̄ncipio: ergo ſi. d. eſſet tante quātitatis p̄ciſe
ſicut in p̄ncipio fuit. c. ſequit̄ ꝙ tardius nūc īducet̄ gradus
ſumm⁹ in. d. q̄ in p̄ncipio inducebat̄ in. a. ꝯña per ſextā et
13^am ꝯclōnes ſatis pꝫ. Sed in. f. ꝓportiōe velocius īducet̄
gradus ſumm⁹ in. d. q̄ nunc inducēret̄: eo ꝙ eſt in. f. ꝓpor/
tione maius q̄ nūc eſſet: ergo nūc nō in. f. ꝓportione velocius
inducit̄ gradus ſumm⁹ in. d. q̄ in p̄ncipio inducebat̄ in. a.
ꝯña ſatis ꝓcꝫ: ergo in. f. ꝓportiōe velocius inducet̄ gradus
ſumm⁹ in. d. q̄ in. c. eo ꝙ ſunt oīno ſilia: et alteratio in. d. eſt
in. f. ꝓportiōe maior alteratiōe. c. ſequit̄ ꝙ in. c. nūc tardi⁹
inducet̄ gradus ſumm⁹ q̄ in p̄n⁰ in. a. et eque velociter p̄ce/
ciſe nūc inducit̄ in. a. ſicut in. c. qꝛ eque tarde in totū ſicut in
pte: ergo nūc tardius inducit̄ in. a. q̄ in p̄n⁰: et ita de omni
inſtanti et pte in iſto ſm̄ ſe totā remiſſa ad ſummū termi/
nata eſt arguēdū: et ſimilr̄ pōt argui ꝙ ſemꝑ in parte po/
ſteriori tardius inducet̄ q̄ prius: ſequit̄ ergo cōcluſio: ſed
cōtra iſtas pōt argui ſicut contra penultimā eſt arguitū.

⁋ Si aliqd̄ vniformiter difforme terminatū ad ſummū 8ª reg^a ſed 39 in ordine.
alteratum latitudine vnifor^r difformi extremo remiſſiori
verſus extremū remiſſius ſubiecti cōdenſet̄ vnifor^r quo
ad ſubiectū et eque ꝓpor^r intēdat̄ alteratio ſicut quātitas
minorat̄ manente alteratiōe vnifor^r difformi vnifor^r per
partē remiſſā extēſa inductio gradus ſūmi ꝯti^e remittet̄.
Sit enī. a. vt ponit̄ in añte iſtius cōditionalis et arguit̄ ꝙ
cōtinue poſt hoc tardi⁹ inducet̄ in. a. q̄ nūc incipit induci:
qꝛ ſi nō: ſit. b. inſtās tale in quo nō. Et ꝙ ſic arguit̄: qꝛ ſit. c.
pꝰ ꝓtunc remiſſa terminata ad ſummū: et ſeq̄t̄ vt prius ꝙ
latitudo iſta quātitatis in. c. maiorabit̄ extēſiue: et ſit nunc
grā argumēti illud. b. inſtās: et ſit. a. et. c. in. f. ꝓportiōe mino
ris quātitatis q̄ in p̄n⁰ et alteratio in. f. ꝓportione maior q̄
in p̄n⁰: et ſit. d. vnifor^r difforme latitudine eadē qua. c. ter/
minatū ad ſummū: et ꝯſilr̄ alteratū cū. c. ſit tñ. d. tāte quā/
titatis ſicut fuit. c. in p̄ncipio: quo poſito latitudo in. d. erit
maior q̄ fuerit in. c. in principio: et ſicut fuit. c. minus. a. ita
habuit minorē latitudinē q̄. a. eo ꝙ fuit vnifor^r difforme:
ergo in principio fuit maior ꝓportio quātitatis. a. ad quā/
titatē quā nūc hꝫ. d. q̄ fuerit latitudinis quā tūc habuit. a.
ad latitudinē quā hꝫ. d. ꝯña pꝫ et maior ſimilr̄ per ꝑargu/
tū: ergo ſi. d. eadē latitudine alteret̄ qua. a. in p̄ncipio tardius
inducet̄ gradus ſumm⁹ in. d. q̄ in p̄ncipio in. a. ꝯña iuxta
ſextā et 13^am ꝯclōnes ſatis eſt manifeſta. Sed nunc in. f. ꝓ/
portiōe veloci⁹ inducit̄ gradus ſumm⁹ in. d. q̄ tunc: eo ꝙ
in. f. ꝓportione eſt alteratio. d. velocior q̄ tunc eſſet: ergo tūc
nō in. f. ꝓportione velocius gradus ſumm⁹ intendet̄ in. d.
q̄ in p̄ncipio in. a. et in. f. ꝓportione velocius inducit̄ in. d.
q̄ in. c. ergo tardius nūc īducit̄ in. c. q̄ in p̄ncipio in. a. ꝯña
pꝫ de ſe et minor pꝫ per 8^am et 13^am ꝯclōnes: qꝛ. d. eſt in. f. ꝓ/
portione maius. c. cōſilr̄ cū eo diſpoſitū: et ꝯſimilr̄ cum eo
alteratū: et ſic de omni alio inſtāti eſt arguēdū ꝙ. ſ. in iſto
inſtanti tardius inducet̄ gradus ſumm⁹ in partem ꝓtunc
remiſſā q̄ in p̄ncipio in. a. et ꝙ ſemꝑ in inſtanti poſteriori
tardius inducetur q̄ in priori: ſequit̄ ergo cōcluſio. ⁋ Si
aliqd̄ vniformiter difforme terminatū ad ſummū alteratū 9ª regula 40. tamē in ordine.
latitudine vniformiter difformi extremo remiſſiori alte/
rationis verſus extremū intēſius ſubiecti rareſiat vnifor/
miter quo ad ſubiectū et eque ꝓpor^r remittatur alteratio
per totū vniformiter per partē remiſſā ad ſummū termi/
natā extenſa velocius et veloci⁹ inducet̄ gradus ſumm⁹.
Sit enī iſtud. a. vt ponit̄ in antecedente iſtius cōditiona/
lis et arguit̄ ꝙ ꝯtinue poſt hoc velocius inducetur gradus
ſumm⁹ in. a. q̄ nūc incipit: qꝛ ſi nō: ſit. b. illud inſtās in quo
nō: et ſit pars ꝓtunc terminata ad ſummū vt prius et laba/
tur tēpuſcita ꝙ nūc ſit. b. inſtās gratia argumēti: et ſit quā/
titas. a. in. f. ꝓportiōe maior q̄ in p̄cipio: et ſit. d. oīo qua/
litatiue et quātitatiue ſimile. c. alteratū eadē latitudine al/
terationis qua. a. in principio. Et arguit̄ ſic. Latitudo in. c.
d. eſt minor q̄ in p̄ncipio fuit in. c. ex quo velocius fuit al/
teratio ad extremū remiſſius q̄ ad extremū intēſius: ergo
ſi. d. eſſet preciſe tante quātitatis ſicut fuit. c. in p̄ncipio ve/
locius inducēret̄ gradus ſumm⁹ in. d. q̄ in principio in. a.
ꝯña pꝫ per ꝯclōnes 7^am et 13^am: qꝛ tunc eſſet maior ꝓportio
latitudinis ad latitudinem q̄ quātitatis ad quātitatem vt
notū eſt. ſed in. f. ꝓportione velocius nūc inducit̄ gradus
ſumm⁹ in. d. q̄ tunc: qꝛ ſua quātitate velocius in. f. ꝓpor/
tione nūc inducit̄ gradus ſummus in. d. q̄ in principio in/
ducebatur in. a. et in. f. ꝓportiōe velocius nunc inducitur
gradus ſummus in. d. q̄ in. c. eo ꝙ alteratur latitudine in
f. ꝓportione maiori: ergo nunc velocius inducitur gra/
dus ſummus in. c. q̄ in principio in. a. et ita de oī alio inſtā/
ti eſt arguendū ꝙ. ſ. in illo velocius inducit̄ gradus ſūm⁹
in parte terminata ad ſummū q̄ nunc incipit in totum. a. et
ſilr̄ ꝙ velocius inducitur in inſtāti poſteriori q̄ in priori.

Decia regula τ eſt in ordine 41. ¶ Si aliqđ vnifor^e terminatũ ad ſummũ alteratũ latitu-
dine vniformiter difformi extremo remiſſiori verſus ex-
tremũ intẽſius ſubiecti cõdenſet̃ vnifor^r quo ad ſubiectũ
τ eque ꝓpor^r intendat̃ alteratio ſicut quãtitas minoratur
cõtinue inductio gradus ſummi intẽdet̃:ponat̃ ergo de.a.
vt ponit̃ in antecedente iſtius conditionalis τ arguitur vt
prius ꝙ velocius cõtinue inducet̃ in.a. q̃ȝ nunc incipit:qȓ
ſi nõ:ſit i^d inſtans.b.τ ſit nunc gratia argumẽti:τ ſit.c.pars
remiſſa terminata ad ſummũ:τ ſit.d.tante quãtitatis ſicut
fuit.c.in principio eadem latitudine vniformiter difformi
qua nũc eſt.c.τ eadeȝ latitudine alteratũ cuȝ.c. quo poſito
minor eſt ꝓportio quãtitatis quã habuit.a.in principio ad
quãtitatẽ.d.q̃ȝ fuit latitudinis quã habuit.a. ad latitudinẽ
quã habet.d.eo ꝙ latitudo.d.c.eſt mior q̃ȝ fuit in pͥncipio
in.c.ergo per 7^am τ 13^am ɔclusiones ſi alteret̃.d.eadeȝ lati-
tudine qua.a.in pͥcipio velocius inducet̃ gradus ſumm^9
in.d.q̃ȝ in principio inducebat̃ in.a.ſed in.f. ꝓportiõe nũc
velocius inducet̃ gradus ſummus in.d.q̃ȝ tunc. Sit enim
alteratio.a.in.f.ꝓportione minor τ quãtitas in.f.ꝓportiõe
minor q̃ȝ fuit in principio:ergo nunc plus q̃ȝ in.f.ꝓportiõe
velocius inducit̃ gradus ſumm^9 in.d.q̃ȝ in principio indu
cebat̃ in.a.τ per octauã ɔcl'oneȝ in.f.ꝓportione preciſe ve
locius inducit̃ in.d.q̃ȝ in.c.eo ꝙ.d.eſt in.f. ꝓportione ma-
ius.c.ergo nũc velocius iducit̃ gradus ſummus in.c.q̃ȝ in
principio inducebat̃ in.a.τ ſic de omni alio inſtanti eſt ar-
guendum:ergo ſequit̃ cõcluſio. ¶ Iſtaȝ ſex ɔcl'onuȝ due
prime ꝓbantur per hoc ꝙ in omni pte iſtius manebit cõ-
tinue equalis latitudo extenſiue ſicut in principio eſt in ea-
deȝ parte.Due alie probant̃ per hoc ꝙ in omni pte iſtius
erit maioratio latitudinis extenſiue.Et due vltime ꝓban-
tur per hoc ꝙ in omni parte iſtius eſt minoratio latitudi-
nis vt arguitȝ eſt.Ubi tamẽ eſt difformiter difformis al-
teratio:vel difformiter difformis rarefactio:vel cõdẽſatio
nulla poſſet poni certa regula generalis:eo ꝙ hꝰ difformi-
tas infinitis modis poterit variari. ¶ Alicuius ſubti vni-
Undecia regula ſiue ɔcl'o. 42. formiter difformis extremo equeuelociter per rarefactio-
nem vniformẽ quo ad ſubiectuȝ recedente ſicut ſummus
gradus inducit̃ quieſcente extremo ſummo per totum id
deueniet gradus ſummus. ¶ Itẽ per.a.equecito deueniet
§ 43 gradus ſummus preciſe ſicut per.b.τ tamẽ citius per.a.q̃ȝ
per.b.Concluſio ſcđa includit cõtradictionẽ manifeſte:iõ
non arguit̃ cõtra illaȝ. ¶ Contra primã arguit̃ ſic. Si ex-
tremuȝ equeuelociter continue recedet ſicut gradus ſum-
mus inducet̃:ergo inter gradum ſummũ τ id extremũ cõ
tinue erit equalis diſtantia:ergo nunq̃ȝ per totuȝ deueniet
gradus ſumm^9 manente rarefactiõe. ¶ Itẽ ſi ſit totuȝ grã
argumẽti pedale:tunc ex quo totuȝ rareſit ſic ꝙ extremuȝ
equeuelociter recedit ſicut gradus ſumm^9 incipit induci:
ſequit̃ ꝙ incipit rarefieri tali gradu quo põt fieri dupluȝ
in tẽpore in quo gradus ſummus mediãte iſta inductione
deueniret per totuȝ:cuȝ ergo nũc inductio manebit vnifor
mis τ equeuelox ſicut tunc per cõcluſioneȝ:ſequit̃ ꝙ nunc
ſic moto extremo nõ deueniet gradus ſummus per totuȝ:
quia quãtitas eſt maior q̃ȝ prefuit.Sil'r alteratio tardior:
qđ nõ foret niſi gradus ſummus tardius per ipſum deue-
niret.Et ꝙ alteratio erit tardior ſatis pȝ:qȓ alteratio velo-
cius inducet̃ q̃ȝ in principio icipit induci.ɔñs eſt cõtra cõ-
cluſioneȝ:ſequit̃ ergo ɔcl'oneȝ fore falſaȝ. ¶ Et ꝙ ipſa ſit
vera arguit̃ ſic.Ponat̃ ꝙ.b.ſit vniformiter difforme ter-
minatuȝ ad ſummũ τ pedale gratia exempli τ rarefiat ad
tripluȝ vnifor^r acquirẽdo quãtitateȝ: τ ſequit̃ ꝙ inductio
vnifor^r maiorabit̃ : quia alteret̃ gradu vniformi quo põt
fieri ſummũ in tempore in quo maiorabit̃ ad ſuũ tripluȝ:
tunc ꝓpor^r ſicut quãtitas erit maior : ita velocius inducet̃
ꝓtunc gradus ſumm^9 q̃ȝ in principio incipit:τ eque ꝓpor^r
intendet̃ ſicut quãtitas maiorabit̃:τ quãtitas vniformiter
maiorabit̃:ergo inductio vniformiter.Añs pȝ:qȓ ponatur
ꝙ.c.ſit cõſimile.b.in principio τ alteret̃ eodeȝ gradu quo
b.τñ nõ rarefiat:tũc ꝓpor^r ſicut.b.erit maius.c. ita veloci^9
iducet̃ gradus ſumm^9 in.b.q̃ȝ in.c.qȓ ſicut totũ.b. ſe hẽbit
ad.c.ita pars alterãda.b.ad ptẽ alterãdaȝ.c. ſicut τ totũ.b.
ad ptẽ ſuã alterãdaȝ ſe hẽbit:ita.c.ad ptẽ ſuã alterãdam:ğ
ꝑmutatiȝ ſicut.b.ad.c. ita pars remiſſa.b. ad ptẽ remiſſaȝ
c.ɔtinue ſe hẽbit.Et ſicut ps alterãda.b.ad ptẽ alterãdã.c.
ita inductio gradus ſũmi in.b.ſe hẽbit ad iductionẽ ğdus
ſummi in.c.ğ ſicut.b.erit maius q̃ȝ nũc eſt:ita veloci^9 indu
cet̃ in.b.q̃ȝ in.c.qȓ ſicut erit mai^9 q̃ȝ nũc eſt: ita erit mai^9.c.
Et ita velociter ſicut inducet̃ in.c.inducit̃ vel icipit iduci
in pͥn^o in.b.ergo ſicut.b.erit maius q̃ȝ nũc eſt:ita veloci^9 in-
ducet̃ gradus ſumm^9 in ipm q̃ȝ nũc inducit̃:ğ iductio gra-
dus ſũmi in.b.eque ꝓpor^r intẽdet̃ ſicut quãtitas maiora-
bit̃:τ quãtitas vnifor^r maiorabit̃:ğ inductio gradus ſũmi
in.b.vnifor^r intendet̃ ad tripluȝ. Sit ergo ꝙ in pͥn^o gratia
argumẽti ſit inductio gradus ſũmi vt duo:τ ſequit̃ ꝙ intẽ-
detur vnifor^r ad ſex: τ oĩs latitudo motus vnifor^r acqſita
ſuo gradui medio corrñdet : ğ tota iſta inductio vt acqrit̃
gradui vt quattuor corrñdet.Cuȝ ğ iſta hora in qua vt po-
nit̃ fiet rarefactio:totũ id pedale fiet ſummũ mediãte iſta
alteratiõe:τ nũc inductio gradui in duplo intẽſiori corrñ-
debit q̃ȝ in pͥn^o:ſequit̃ ꝙ nũc ſoluȝ induceretur per bipedale
circũſcripta quãtitate acqſite pti ſumme dum ipſa fuerit
ſumma.ɔña ſatis nota eſt:poſito ꝙ.a. ſit oĩo ſimile τ rare-
fiat ɔtinue ɔſil'r ſicut.b.τñ ſi intẽdat̃ nũc alteratio in.a.ita
ꝙ inductio gradus ſummi corrñdeat gradui vt quattuor τ
varietur alteratio : ita ꝙ ɔtinue eideȝ gradui corrñdeat idu
ctio ſicut in pͥn^o tunc extremũ.a. equeue^r intẽdet per rare-
factionẽ ſicut gradus ſumm^9 inducet̃ vt pȝ per caſum:qȓ
extremũ mouebit̃ tali gradu quo tranſiretur bipedale in
hora:τ talis nũc eſt inductio ꝙ per iſtaȝ põt fieri bipedale
ſummũ in hora per caſuȝ. Et ꝙ mediante i^a inductiõe de-
ueniet gradus ſumm^9 ad extremũ in iſta hora.ꝓbo ſic.gra
dus ſumm^9 cõtinue erit ꝓpinquius extremo remiſſiori.a.
q̃ȝ extremo remiſſiori.b.ergo equecito vel citius deueniet
gradus ſumm^9 per.a.ſicut per.b.ɔña pȝ : τ añs ꝓbo. nunc
velocius incipit gradus ſummus induci in.a.q̃ȝ in.b.vt pȝ
per caſuȝ:ğ nũc incipit pars ſumma eẽ maior pte ſũma.b.
τ cõtinue erit maior:qȓ ſi nõ:ſignet̃ id inſtans in quo deſi-
net eſſe maior:τ ſequit̃ ꝙ tunc erũt iſte ptes.a.b. equales.
ſed ꝙ nõ arguit̃.ꝙ ſi ſic:tũc ɔtinue ante id inſtãs erit pars
ſumma.a.maior pte ſumma.b.τ oẽs partes equales eque-
velociter cõtinue acqrent de quãtitate : ergo ps ſumma.a.
cõtinue vſqȝ ad id inſtãs maiorẽ quãtitatẽ acquiret parte
ſumma.b.τ cõtinue ante erit maior : ergo tũc erit ps ſum-
ma.a.maior pte ſumma.b. ¶ Itẽ totalis inductio gradus
ſũmi in.b. ꝓciſe erit tanta ſicut tota inductio in.a. ſed in oĩ
pte hore terminata ad pͥn^m erit inductio gradui remiſſiori
corrñdens.b.q̃ȝ in tota hora:ğ in iſta pte tpis gradui inten
ſiori corrñdebit iductio gradus ſũmi in.a.q̃ȝ in.b. ğ circũ-
ſcripta quãtitate acqſita pti ſumme.a.duȝ fuerit ſumma:τ
ſic de.b.erit gradus ſumm^9 iduct^9 per maiorẽ ptẽ.a.q̃ȝ per
b.τ quãtitas acqſita oĩ parti ſumme.a. in iſta pte tpis erit
maior quãtitate acquiſita pti ſumme.b.in eadeȝ pte tpis:
eo ꝙ cõtinue vſqȝ ad id inſtans erit pars.a.ſumma maior
parte.b.ſumma ꝑȝ:quia in iſto inſtãti ſignato erit pars.a.
ſumma maior parte ſumma.b.τ ſic pro oĩ alio inſtanti eſt
arguẽdũ:ğ ɔtinue eſt pars ſumma.a.maior pte ſumma.b.
τ tote quãtitates ſemꝑ erunt equales : ergo ſemꝑ erit gra-
dus ſummus ꝓpinquior extremo remiſſiori.a.q̃ȝ extremo
remiſſiori.b.ergo equecito vel citius fiet.a. ſummuȝ ſicut
b.τ.b.in iſta hora:ergo τc. ¶ Secunda concluſio arguitur

ſic.tota inductio gradus ſummi in.a. eidem gradui corre-
ſpondebit ſicut tota in.b.⁊ ſubiecta ſunt equalia ⁊ ꝯſimil'r
oīno maiorabūtur:ergo equeci[t]o deueniet per.b. ſicut per
a.⁊c̄.Et ꝙ citius per.a.ꝓbo ſic.pars ſumma.a.cōtinue erit
maior parte ſumma.b.vt argutū eſt: ergo maior quātitas
cōtinue acquiret̄ parti ſumme.a.ꝙ̄ parti ſumme.b.poſtꝙ̄
ipſa fuerit ſumma:⁊ parti ſumme.b.acqriẗ pedale poſtꝙ̄
fuerit ſumma vt pꝫ per caſuꝫ:ergo parti ſumme.a. acqui-
ritur plus ꝙ̄ pedale poſtꝙ̄ ipſa fuerit ſumma: ergo quāti-
tas reſidua.a.nō erit bipedalis:ſed penes iſtam quātitatē
acquiſitaꝫ.ſ.parti ſumme poſtꝙ̄ fuerit ſumma non atten-
ditur inductio vt pꝫ:ergo quātitas penes quā attendet̄ in-
ductio gradus ſummi in.a.nō erit bipedalis:⁊ per bipeda
le mediante iſta inductione deueniet gradus ſummus in
hora:ergo ante finē hore deueniet gradus ſummus per.a.
qḋ fuit ꝓbandū:⁊ per.b.in hora preciſe:ergo citius per.a.
ꝙ̄ per.b. ¶ Ad ideꝫ arguitur ꝓbādo ꝙ citius fiet.a. ſum-
muꝫ ꝙ̄.b.nam quātitas.a. vniformiter maiorabit̄ ad tri-
plum:ergo tardius ⁊ tardius ꝓpor' maiorabit̄:⁊ alteratio
eque ꝓpor' minorabit̄ ſicut quātitas maiorabit̄: q: aliter
nō vniformiter inducet̄ gradus ſummus vt ꝓbatum eſt
cōcluſione 13ª: ⁊ ſic tardius ⁊ tardius ꝓpor' minorabitur
alteratio.a.⁊ per cōſequēs tardius ⁊ tardius ſimil'r mino-
rabitur ſicut iſta alteratio.a. vt quatuor: ⁊ ſequit̄ ꝙ alte-
ratio.b.erit vt duo ſoluꝫ:quia in duplo velocius icipit gra
dus ſummus iduci in.a.ꝙ̄ in.b.Sed alteratio.a.vt deper-
ditur correſpōdet gradui intenſiori ꝙ̄ eſt duo : ergo citius
fiet.a.ſummū ꝙ̄.b.ꝯña ⁊ maior patent:⁊ minor ſic arguit̄.
Alteratio in.a.tardius ⁊ tardius deperdet̄:⁊ in inſtāti me-
dio erit vt duo:ergo correſpōdebit gradui intēſiori ꝙ̄ eſt
duo.ꝯña pꝫ per cōcluſioneꝫ 58ᵃᵐ de motu locali : vbi pro-
batur ꝙ omnis motus tardius ⁊ tardius deperditus gra-
dui intenſiori ꝙ̄ eſt gradus habitus in inſtanti medio cor-
reſpondet:⁊ minor ſic arguit̄.totuꝫ.a.vniformiter rareſiet
ad triplum : ergo in inſtanti medio erit in duplo maius ꝙ̄
nūc eſt.ꝯña ſatis pꝫ : ⁊ eque ꝓpor' minorat̄ alteratio ſicut
quātitas maiorabatur:ergo in inſtāti medio erit alteratio in
duplo minor ꝙ̄ nūc eſt:⁊ nunc eſt vt quatuor:ergo tūc erit
44ª ʒ vt duo:ſequit̄ ergo ꝓpoſituꝫ ex iſto.ſ. ¶ Ex inductiōe exi-
ſtente tardiori ꝙ̄ motus extremi ⁊ vbicūqꝫ manente vni-
formi per totuꝫ deueniet gradus:quia.a. fiet ſummū ante
fineꝫ hore.ſtaret ergo alterationē eſſe tardiorē ⁊ inductio-
neꝫ:ita ꝙ in iſta hora preciſe deueniret ad extremū : ⁊ tūc
foret inductio tardior motu extremi:ergo ⁊c̄. ¶ Cōtra id
arguit̄.vt cōtra ꝓximā cōcluſionē ⁊ id argumentū eſt for
tius cōtra iſtaꝫ cōcluſioneꝫ ꝙ̄ cōtra illaꝫ. ¶ Pro iſtis con
cedenda eſt cōcluſio 42ª: ⁊ ſimil'r cōcluſio 44ª. ⁊ negat̄
ſ' cōcluſio prius dicta. ¶ Ad primū argumentuꝫ quando
arguitur ſic: equeuelociter recedet extremuꝫ ſicut gradus
ſummus inducet̄: ergo inter graduꝫ ſummū ⁊ extremum
cōtinue erit equalis diſtātia ſicut in principio. negat̄ ꝯña:
quia gradus ſummus nō mouebit̄ ſolum motu inductio-
nis:ſed mouebit̄ rōne rarefactionis ꝑtis ſumme: qui mo-
tus cuꝫ inductione cōtinue erit velocior ꝙ̄ mot' extremi:
⁊ ſic ſoluit̄ id argumentū. ¶ Pro iſto argumēto cōcedit̄
ꝙ extremū incipit moueri tali gradu:ſeu incipit rareſieri
tali gradu quo fieret dupluꝫ in tp̄e in quo gradus ſumm'
deueniret per totuꝫ ſtante alteratione:⁊ ideo id argumētū
bene ꝓbat ꝙ in iſto tēpore in quo rareſieret ſoluꝫ ad du
pluꝫ nō deueniet gradus ſummus per totū:imo in tēpore
maiori vt ſatis pꝫ eſſe ꝓbatuꝫ:eo ꝙ ſua alteratio remittet̄
⁊ etiaꝫ per plus ꝙ̄ per pedale inducet̄: ⁊ per motuꝫ extre-
mi ſoluꝫ tranſibit̄ pedale in tempore in quo fiet duplum.
¶ Pro cōcluſione reducta dicit̄ ꝙ per.a. citius deueniet
gradus ſummus ꝙ̄ per.b.qḋ ſic oſtendit̄ : pars ſumma.a.
cōtinue erit maior ꝙ̄ pars ſumma.b. ergo illi ꝑti ſūme.a.
poſtꝙ̄ fuerit ſumma maior quātitas acquiret̄ ꝙ̄ ꝑti ſūme
b.⁊ per ꝯñs pars remiſſa vt prius nō erit bipedalis ⁊c̄. vt
arguꝫ eſt in cōcluſione.⁊ negat̄ ꝯñia.ſ.totales inductio-
nes eadeꝫ gradui correſpōdebūt ⁊ ſubiecta nūc ſunt equa-
lia ⁊ conſimil'r maiorabunt̄ : ergo equecito per iſta deue-
niet gradus ſumm' : q: pars ſumma poſtꝙ̄ fuerit ſumma
plus acquiret de quātitate ꝙ̄ pars ſumma.b.⁊ penes quā-
titatē acquiſitā parti ſumme poſtꝙ̄ erit ſumma nullo mō
attēdet̄ inductio:ergo 44ª cōcluſio eſt cōcedenda:⁊ argu
mentū in oppoſitū ſi fiat ſoluit̄ vt prius. ¶ Extremo vni- 45ª ʒ
formiter difformi vnifor' recedente per rarefactionē vni-
formē quo ad ſubiectuꝫ inductio gradus ſummi remittet̄
ad nō gradū:⁊ tamē per id totuꝫ deueniet gradus ſūmus.
¶ Ex nō arguit̄ ſic.Si in infinituꝫ remittet̄ inductio ma-
nente motu extremi vniformi in infinitum velocius aliqū
recedet extremū ꝙ̄ ğdus ſummus inducet̄: ⁊ ꝯtinue ante
fineꝫ erit aliqua diſtantia inter iſta:ergo in fine nō erit ad
extremū. ¶ Ad iſtaꝫ cōcluſioneꝫ ꝓbādaꝫ arguit̄ ſic. Sit
a.pedale vniformiter difforme:⁊ ſit.b.bipedale vniformi-
ter difforme eadeꝫ latitudine terminata ad ſummū ⁊ alte-
rentur eodeꝫ gradu vniformi:qui gradus remittat̄ vnifor
miter ad nō gradum in iſto tp̄e in quo.b. fiet ſummū per
iſtaꝫ latitudinē:⁊ rareſiat.a.vnifor' quo ad tempus ⁊ quo
ad ſubiectū in iſto tēpore ad equalitateꝫ.b. ⁊ ſequit̄ ꝙ ex-
tremū.a.vniformiter recedet:eo ꝙ erit acquiſitio quātita-
tis vniformis quo ad tēpus:⁊ inductio gradus ſummi re-
mittet̄ ad nō gradūꝫ in.a.quia in.b.remittet̄ inductio gra
dus ſummi ad nō gradum:⁊ tardior erit cōtinue inductio
gradus ſummi in.a.ꝙ̄ in.b. ergo in.a. remittet̄ ad nō gra-
dum.ꝯña de ſe pꝫ:⁊ maior pꝫ per ꝯcl'onē 30ᵃᵐ.⁊ minor ar-
guitur.Totuꝫ.a.erit cōtinue minus.b. ⁊ ad puncta eorum
correſpōdentia equecito deueniet gradus ſummus : eo ꝙ
equal'r diſtent a ſummo ⁊ alterationes erunt equales: igit̄
pars alterāda.a.ſemꝑ erit minor parte alteranda.b. ⁊ iſte
partes erunt vniformiter difformes eadem latitudine vt
notum eſt : ⁊ alterationes erunt equales:ergo tardius con
tinue inducetur gradus ſummus in.a. ꝙ̄ in.b. Et ꝙ.a. fiet
ſummū patet:quia.b.fiet ſummū in iſto tempore:⁊ ad oēꝫ
punctuꝫ.a.cōtinue erit equalis rarefactio ſicut ad punctū
correſpōdenteꝫ : ⁊ equaliter omnia huiuſmodi puncta di-
ſtant a ſummo:ergo ad omnē punctū.a.equecito deueniet
gradus ſummus ſicut ad punctuꝫ correſpondentē.b.ergo
in iſto tēpore fiet.a.ſummuꝫ:ſequit̄ ergo ꝯcluſio. ¶ Ideo
dicit̄ eam concedendo.⁊ ad argumentuꝫ in oppoſituꝫ ne-
gatur ꝯñia vltima:quia nō ſolum mouebitur iſte gradus
per inductionē ſed per motum aliaruꝫ partium vt predi-
ctum eſt:⁊ ideo argumentū bene cōcludit ꝙ plus pertran
ſibitur per motuꝫ extremi ꝙ̄ per inductioneꝫ in alia certa
parte terminata ad fineꝫ:ex quo tamē non ſequitur ꝙ gra
dus ſummus nō deueniet per totuꝫ. ¶ Et ideo ſequit̄ iſta 46ª ʒ
cōcluſio ꝙ mediante motu vniformi extremi per rarefa-
ctionem que rarefactio fit ſoluꝫ in parte nō ſumma exiſtē
te inductione equeueloci cuꝫ motu iſtius extremi:vel tar-
diori:vel ipſa remiſſa ad nō gradum : per illud non deue-
niet gradus ſummus:q: tunc non mouebitur gradus ſum-
mus niſi per inductioneꝫ : eo ꝙ nō erit motus rarefactio-
nis in parte ſumma. Si ergo mot' extremi ſit equeuelox
cum inductione vel velocior nunꝙ̄ manente iſto motu ad
extremū deueniet gradus ſummus qḋ eſt concedendum.
¶ Quelibet pars.a.citius fiet ſumma ꝙ̄ pars corrñdens
b.⁊ nō citius:q: ponat̄ ꝙ.a.b.ſint duo vniformiter diffor- 47ª ʒ
mia terminata ad ſummū ꝯſilia qualitatiue a quātitatiue:
⁊ rareſiat oīno ſimil'r vtrūqꝫ.ſ.vniformiter quo ad ſubie-
ctū:ita ꝙ queliꝫ ꝑs eq̄lis equal'r de quātitate:⁊ ſit alteratio

in.a.vt quattuoꝛ que remittatur vniformiter vſqꝫ ad duo:
ꝛ alteretur.b.aliquo gradu ſupra gradum vt tria: tunc
tota alteratio.b.correſpondet gradui intenſioꝛi ꝙ̃ tota al-
teratio.a.quia alteratio.a.correſpondebit vt 3ᵃ: ꝛ per ɔñs
citius fiet.b.ſummũ ꝙ̃.a.ergo nõ quelibet pars.a.citiꝰ erit
ſumma ꝙ̃ pars correſpõdens.b.ergo ſcða pars cõcluſio-
nis eſt vera.Et ꝙ pͥma pars ſit vera arguiť ſic.Pars ſum-
ma.a.cõtinue erit maioꝛ ꝙ̃ pars ſumma.b.ꝛ toti.a.equa-
le toti.b.ergo ꝛc̃.añs pꝫ: quia nunc incipit pars ſumma.a.
eẽ maioꝛ parte ſumma.b.eo ꝙ velocioꝛ eſt alteratio in.a.
ꝙ̃ in.b.ꝛ cõtinue erit maioꝛ:q2 ſi non:ſit ita ꝙ in.c.inſtanti
deſinet eſſe maioꝛ: ita ꝙ tunc erunt partes ſumme equa-
les in.a.ꝛ in.b.Cõtra.cõtinue ante.c.velocius maioꝛabitur
pars ſumma.a.ꝙ̃ pars ſumma.b.ꝛ aliqñ ante id iſtãs erit
pars ſumma.a.maioꝛ pte ſumma.b.ergo tunc erit maioꝛ.
ɔña patet cuꝫ minoꝛi:ꝛ maioꝛ ſic arguiť.oẽs partes equa-
les.a.b.equeuelociter acquirent de quãtitate: ꝗ pars ſum-
ma.a.cõtinue ante.c.inſtans per datum erit maioꝛ parte
ſumma.b.ſequiť ꝙ pars ſumma.a.cõtinue velocius acq-
ret de quãtitate ꝙ̃ pars ſumma.b.ꝛ per ɔñs velocius con-
tinue maioꝛabiť pars ſumma.a.ꝙ̃ pars ſumma.b.qð fuit
ꝓbanduꝫ.Sequiť etiã ꝙ in.c.inſtanti erit pars ſumma.a.
maioꝛ pte ſumma.b.ꝛ partes correſpõdentes.a.b.cõtinue
erunt eq̃les: ergo quelꝫ pars.a.citius erit ſumma ꝙ̃ pars
corñdẽs.b.q2 ſicut arguiť de.c.inſtãti:ita de omni alio eſt
arguẽduꝫ:ſequiť ergo cõcluſio. ¶ Sed pro ɔcl'one negať
prima pars ꝛ cõcediť ꝙ nũc incipit pars ſumma.a.eẽ ma-
ioꝛ pte ſumma.b.ſed nõ cõtinue erit maioꝛ ꝛ admittať ꝙ
in.c.erit preciſe ſibi eq̃lis.Et tũc qñ arguiť ꝙ ɔtinue añ.c.
velocius maioꝛabiť pars ſumma.a.ꝙ̃ pars ſumma.b.ne-
gať.Et tũc qñ arguiť ꝫ.oẽs ptes eq̃les.a.ꝛ.b.equeꝰ acq̃rẽt
de quãtitate:ſed pars ſumma.a.cõtinue ante.c.erit maioꝛ
pte ſumma.b.ergo ɔtinue velocius acq̃ret de quãtitate:ꝛ
per ɔñs velocius maioꝛabiť.negať ɔña:q2 dupl'r maioꝛa-
biť pars ſũma vtriuſqꝫ.ſ.per rarefactionẽ ꝛ per iductio-
nem gradus ſummi:ideo bene ſequiť ꝙ ɔtinue ante.c.ve-
locius maioꝛabiť pars ſumma.a.ꝙ̃ ps ſumma.b.ꝛ hoc ꝑ
rarefactionẽ:ſed tardiꝰ maioꝛabiť per inductionẽ ante.c.
pars ſumma.a.ꝙ̃ ps ſumma.b.eo ꝙ ante.c.tardius indu-
ceť gradus ſummꝰ in.a.ꝙ̃ in.b.ꝛ ideo nõ ſeq̃ť ꝙ tota ma-
ioꝛatio quãtitatis ptis ſumme.a.ɔtinue añ.c.erit velocioꝛ
ꝙ̃ maioꝛatio ptis ſumme.b.ꝛ ſic nõ ꝓcedit argumentum.

48ª ʒ ¶ Gradus ſummꝰ in certo tpe finito induceť per.a.qui in
nullo finito iduceť per.a.Sit.a.vniformiter difforme ter-
minatuꝫ ad ſummũ alteratũ latitudine alteratiõis vnifoꝛ
miter difformi ad nõ gradum terminata extremo remiſ-
ſioꝛi verſus extremũ remiſſius ſubiecti: ꝛ ad oẽm punctũ
a.intendať alteratio in infinitũ ꝛ correſpõdeat gradui du-
plo:ꝛ ꝓpoꝛtionabil'r ſicut puncta minus diſtãt a ſummo:
ita in tpe minoꝛi ad iſta puncta intendať alteratio in infi-
nitum ꝛ intendať gradus correſpõdens medio puncto in
infinitũ in hoꝛa: ꝛ ſequiť ꝙ ad extremũ remiſſius in dua-
bus hoꝛis preciſe fiet hoꝫ intenſio:tunc in fine illaꝝ duarũ
hoꝛaꝝ fiet a ſummuꝫ:q2 ſi nõ:ad oẽm punctũ tunc erit gra
dus ſummꝰ.Sit iſte.d.cõtra ad.d.ante iſtud inſtãs erit al-
teratio infinita:ergo ad illuꝫ ſubito induceť tota latitudo
per quã deficiet a ſummo: ꝛ ita de omni alio pũcto eſt ar-
guenduꝫ:ergo per totum.a.deueniet gradus ſummꝰ.Et ꝙ
nõ arguiť ſic.mediante latitudine nũc extenſa in.b.nunꝙ̃
foret.b.ſummũ vt cõſtat: q2 erit īfinite tarda alteratio ad
extremũ remiſſius.cuꝫ ergo ad oẽm punctũ correſponde-
bit alteratio gradui in duplo intenſioꝛi preciſe ꝙ̃ in pͥnci-
pio:ſequiť ꝙ nõ per totũ.a.deueniet gradus ſummꝰ.Pro
quo diciť ꝙ.a.nõ fiet ſummũ: nec ad aliquẽ eius punctuꝫ
deueniet gradus ſummꝰ niſi imagineť ad puncta alia cali-
ditateꝫ intendi vltra ſummũ:qð ſic arguiť.Si ad aliqueꝫ
deueniet gradus ſummꝰ ſit ille.d.cõtra.ad aliuꝫ punctũ.ſ.
mediuꝫ.d.ꝛ ſummũ correſpõdebit alteratio gradui inten-
ſioꝛi ꝙ̃ ad iſtum punctuꝫ: ꝛ per in duplo minus tps dura-
bit alteratio ad illuꝫ ꝙ̃ ad.d.vt poniť in caſu.Si ergo ad
illum punctũ mediũ in tpe ſubduplo.d.non deueniet gra-
dus intenſioꝛ ꝙ̃ eſt gradus ſummus:ſequiť ꝙ ad.d.in iſto
tpe duplo nõ deueniet gradus ſummꝰ:eo ꝙ.d.in pͥncipio
plus diſtat a ſummo ꝙ̃ iſte punctus medius.negať ɔñtia:
ad oẽm punctum erit alteratio infinita:ergo tota latitudo
per quã deficiet a ſummo ſubito acquireť: q2 omnis lati-
tudo que acquiriť neceſſario debet acquiri in tempoꝛe:q2
ſi in inſtanti acquirereť ſimul eſſet in acquiri ꝛ in acquiſi-
to eſſe:qð eſt impoſſibile. ¶ Alteratio in.a.in nullo tẽpoꝛe 49ª ʒ
finito intendeť in infinituꝫ:que tamẽ ſubito intendetur in
infinitum per.a.Sit eniꝫ.a.vt prius alteratum latitudine
terminata ad nõ gradum.ꝛ ponať ꝙ quãto gradus aliq̃
alterationis eſt alio intenſioꝛ:ita in tempoꝛe minoꝛi inten-
detur in infinitum ꝛ correſpondeat gradui duplo quo ad
acquiſitionẽ latitudinis: ꝛ ſequiť ꝙ ad punctũ mediuꝫ al-
teratio in aliquo tempoꝛe intendeť in infinitum: ꝛ ad me-
dium inter illum graduꝫ ꝛ nõ gradum in tẽpoꝛe duplo:ꝛ
ſic in infinituꝫ:ergo in nullo tempoꝛe finito per totum in-
tendetur alteratio in infinitum.Et ꝙ per totum ſubito ꝛc̃.
arꝰ ſic.Ad extremuꝫ remiſſius imediate poſt hoc erit al-
teratio intẽſa in infiᵐ:eo ꝙ imediate poſt hoc induceť gra
dus ſummus ad illud extremuꝫ: vel aliter ſequereť ꝙ ni-
hil mediante huiuſmodi alteratiõe acquirereť ꝛ in duplo
citius intendetur alteratio in infinituꝫ ad extremũ inten-
ſius ꝙ̃ ad punctuꝫ medium:eo ꝙ alteratio ad extremum
in duplo intenſioꝛ eſt ꝙ̃ alteratio ad punctuꝫ mediũ:ergo
imediate poſt hoc intendetur alteratio in infinitũ ad pun-
ctum mediuꝫ.Et per idem ad omneꝫ parteꝫ ꝓpinquioꝛeꝫ
extremo intenſioꝛi: ꝛ per idem ad mediuꝫ inter mediuꝫ ꝛ
non gradum:ꝛ ſic in infinituꝫ:ergo per totum ſubito inten
detur:vel per nullam partẽ vnquã intendetur in infinitũ.
Ideo caſus non eſt poſſibilis niſi fiat alteratio poſtꝙ̃ ad
punctum aliqueꝫ deueniet gradus ſummus ſicut ſatis ꝓ-
bat argumentuꝫ: eo ꝙ ad extremũ per certum tempꝰ ne-
ceſſario tunc maneret alteratio: vnde imaginata tunc la-
titudine caliditatis vltra gradum ſummũ admittať ima-
ginatio:ꝛ tunc cõceditur ꝙ per magnum tempus neceſſa-
rio erit alteratio ad extremuꝫ intẽſius ꝛ certa latitudo acq
retur illi extremo poſtꝙ̃ ipſi extremo gradus ſummꝰ de-
uenerit:ꝛ ſic nõ ꝓcedit argᵐ:id.n.cõceſſuꝫ eſt imaginabile
ſicut caſus:ꝛ ſic nõ ꝓcedit argũᵐ. ¶ Caplm 5ᵐ.

NUnc dicendum eſt qualiter per ge-
nerationeꝫ partibi-
lem alterationis per ſubiectum aliquod poteſt
ipſum manere ſeu fieri vniformiter difforme.
vnde vocatur vniformis generatio quãdo ſicut ſunt pun-
cta propinquioꝛa extremo a quo incipit alteratio progre-
di ſic citius ad illa deueniet:in qua materia quedaꝫ cõclu-
ſiones ſeu regule notande ſunt:quaꝝ prima eſt hec. ¶ Si   pͥª regla
per ſubiectuꝫ aliquod vniforme vel non qualificatum ſit   hͧ capli.
vniformis generatio alterationis vniformis cum varia-
tione aliqua totum ſubiectum fiet vniformiter difforme:ꝛ
etiam quelibet pars alterata ɔtinue manebit vniformiter
difformis:ſicut eniꝫ pũcta ſunt ꝓpinquioꝛa extremo ver-
ſus qð ꝓgrediť alteratio: ita ad iſta puncta per minꝰ tem
pus durabit alteratio ꝙ̃ ad puncta remiſſioꝛa:ſicut ad ex-
tremũ per in duplo maius tps durabit alteratio ꝙ̃ ad me-
dium punctũ: q2 cuꝫ alteratio deuenerit ad aliquem pun-
ctum manebit ad illum vſqꝫ in fineꝫ tempoꝛis:ꝛ ita eſt de
omnibus aliqͦ punctis.cum ergo ad omnia puncta erit al-

teratio equalis: patet ꝙ ſicut puncta ſunt propinquiora
extremo verſus quod ꝑgreditur alteratio: ita qualitas re/
miſſior ad iſta puncta acqrẽt: ⁊ per ꝯñs tota latitudo acq/
ſita erit vnifor' difformis ad nō gradum terminata. Si ğ
totũ in ꝑncipio ſit vniforme vel nō qualificatũ: pꝫ ꝙ tunc
totũ erit vnifor' difforme: ⁊ ſic arguit̃ de omni parte buiꝰ
cuꝫ alteratio ad extremũ eius deuenerit verſus qđ ꝑgre/
ditur alteratio: quia iſta pars tunc erit vniformiter diffor/
mis: ⁊ quelibet pars talis poſt continue alterabit̃ vno gra
du vniformi: ergo per concl'onẽ ſcdam de inductiōe gra/
dus ſummi iſta pars continue manebit vnifor' difformis:
2ª regᵃ ſeqꝫ ergo ꝯclo. ¶ Si ſit vniformis generatio latitudinis
alterationis non variate cōtinue vnifor' difformis: ita ꝙ
iſta latitudo alterationis ſm̃ ſe totam incipiat induci per
parteꝫ ante partẽ reſpectu ſubiecti: ⁊ñ a nullo pũcto rece³
poſt q̃ ad illuꝫ deuenerit ante finẽ tp̃is ſoluꝫ nō fiet vniᶠ
difforme: ſi in ꝑncipio totuꝫ ſit vniforme vel nō qualifica/
tum: ſi cuꝫ extremũ remiſſius ꝑcedet: ſequit̃ ꝙ ad extreᵐ
a quo incipit ꝑgredi plus q̃ in duplo maior latitudo acq/
ritur q̃ ad punctũ mediuꝫ: ⁊ ad extremũ verſus qđ ꝑgre/
ditur alteratio in fine erit nō gradus: q2 per nulluꝫ tp̃s ad
illuꝫ punctũ manebit alteratio: igit̃ tunc totuꝫ nō erit vni/
formiter difforme. ꝯñs ⁊ maior patent: ⁊ minor ſic arguit̃.
Ad punctũ medium per in duplo minus tp̃s durabit alte/
ratio q̃ ad extremũ illđ: ⁊ tardior erit iſta alteratio ſemꝑ
ad punctũ mediuꝫ q̃ ad illđ extremuꝫ: ğ plus q̃ in duplo
maior latitudo acqrẽt in extremo q̃ puncto medio: ⁊ ſic
totum nō erit vniformiter difforme: ſi extremũ intenſius
alterationis precedit: ſequit̃ ꝙ ad punctũ mediuꝫ erit ve/
locior alteratio q̃ ad punctũ illuꝫ extremaleꝫ: ⁊ per in du/
plo minus tp̃s durabit alteratio ad punctũ mediuꝫ q̃ ad
illud extremuꝫ: ergo nō in duplo maior latitudo acquiret̃
ad extremũ q̃ ad punctũ mediuꝫ: ⁊ per ꝯñs latitudo acq/
ſita nō erit vniformiter difformis. Si ğ totũ nͤ ſit vniforᵉ
vel nō qualificatũ: ſequit̃ ꝙ totũ tunc nō erit vniformiter
Tercia regula ⁊ per hāc verificat̃ prima cōclō adducta cōtra ſcđꝫ opinionē đ difformibꝰ.trac.2. difforme: qđ fuit ꝓbādus. ¶ Per ſubiectũ vniforme vel
nō qualificatũ pōt aliqua eſſe generatio partibilis altera/
tionis vniformiter difformis ſine omni alia variatiōe: ita
ꝙ totuꝫ fiat vniformiter difforme: ⁊ etiã ꝙ quelibet pars
alterata cōtinue maneat vniformiter difformis qđcunqꝫ
extremũ precedat. Et primo arguit̃: vbi extremũ intẽſius
precedat. det̃ eniꝫ vnum vniformiter difforme terminatũ
ad nō gradũ alteratũ latitudine vniformiter difformi ex/
tremo intẽſiori verſus extremũ remiſſius ſubiecti: que la/
titudo ſit corruptio iſtius qualitatis: ⁊ ſequit̃ ꝙ pũctis ꝓ/
pinquioribꝰ extremo remiſſiori ſubiecti q̃litas corrũdens
citius corrumpet̃ q̃ punctis remotioribꝰ: exiſtẽte ergo al/
teratione vniformiter in parte reſidua ſemper: ⁊ ſequit̃ ꝙ
hec erit partibilis corruptio iſtius latitudinis alterationis
quo ad partes ſubiecti: ⁊ de iſto vniformiter difformi fiet
vniforme vel nō qualificatũ: ergo ecōtra per cōſimileꝫ ge
nerationẽ de vniformi fiet vniformiter difforme: ⁊ queliꝫ
pars alterata cōtinue manebit vniformiter difformis: q͞a
nũc eſt vniformiter difformis ⁊ cōtinue manebit vniforᶠ
vł p 4ᵉˢ difformis alteratio per iſtaꝫ. ꝯñs pꝫ per nonaꝫ ꝯcluſioneꝫ
de inductiōe gradus ſummi. Ideꝫ eſt argumentũ de vni/
formiter difformi terminatũ ad ſummũ alteratũ hđ alte/
rationē: q2 gradus ſummꝰ partialr̃ inducet̃: ⁊ ſic partialr̃
educet̃ iſta latitudo alterationis ⁊ de vniformiter diffor/
mi fiet vniforme: q2 ſummũ. ideo ecōtra poſſet eſſe gene/
ratio partibilis: ita ꝙ đ vniformi fiet vniformiter difforᵉ.
¶ Ideꝫ arguitur ſi extremũ remiſſius precedat. det̃ eniꝫ
tale terminatũ ad nō gradum alteratũ latitudine ad duos
gradus terminata vniformiter extẽſa extremo remiſſiori
ad extremuꝫ remiſſius ſubiecti: ⁊ ſequit̃ ꝙ nũc incipit eſſe
corruptio qualitatis ad nō gradum ⁊ ad extremuꝫ remiſ/
ſius eſſe: eo ꝙ alteratio eſt ibi certa: ergo erit ꝑtibilis edu/
ctio iſtius latitudinis alteratiōis per quã vniformiter dif/
forme fiet vniforme vel nō qualificatuꝫ: non eniꝫ ſit acq/
ſitio qualitatis per imaginationeꝫ: ⁊ ſi ſic ecōtra per gene/
rationeꝫ partibilem vniforme vel nō qualificatũ fiet vni/
formiter difforme: ſequit̃ ergo cōcluſio. ¶ Per nullaꝫ ge 4ª regᵃ
nerationẽ latitudinis vniformiter difformis ad nō gradũ
terminate per ſubiectũ vniforme poteſt ipſuꝫ fieri vnifor
miter difforme: quia nō poteſt ſi extremuꝫ intenſius pre/
cedat: eo ꝙ ad neutruꝫ extremũ tunc eſſet qualitas acqui/
ſita: nec extremo remiſſiori precedẽte: quia ex quo altera/
tio ſemper erit vniformiter difformis termiata ad nō gra
dum: patet ꝙ in fine preciſe erit gradus ſummus motꝰ al/
terationis ad punctuꝫ mediuꝫ ſubiecti: ⁊ per cōſequẽs al/
teratio ad extremuꝫ ſemper erit plus q̃ dupla ad altera/
tionem ad punctuꝫ mediũ ⁊ ad extremũ per maius tẽpus
durabit alteratio q̃ ad punctuꝫ medium: eo ꝙ generatio
partibilis iſtius alterationis: ergo plus q̃ in duplo maior
latitudo acquiret̃ ad extremuꝫ q̃ ad punctum medium: ⁊
per cōſeqnẽs totum nō erit vniformiter difforme. ¶ Per 5ª regᵃ
generationẽ difformẽ alterationis ad non gradum termi/
nata de vniformi poterit fieri vniformiter difformis ſine
alijs mutationibꝰ. Sint enim. a. b. vniformiter difformia
ad nō graduꝫ terminata ⁊ alteret̃. a. latitudine vniformi/
ter difformi ad nō gradum terminata ⁊ alteret̃. b. iſta lati
tudine difformiter extenſa: ita ꝙ ad aliquem punctuꝫ. b.
erit in duplo velocior alteratio q̃ ad punctuꝫ correſpon/
dentem in. a. ⁊ ad aliqueꝫ alium punctum. b. verſus extre/
mum remiſſius ſit in quadruplo velocior alteratio q̃ ad
punctum correſpondentẽ. a. ⁊ ſic in infinitum: qđ eſt ſatis
poſſibile: ex quo vtraqꝫ alteratio eſt terminata ad nō gra/
dum: ita ꝙ nunc incipiat eſſe corruptio qualitatis ad ex/
tremuꝫ remiſſius. b. ⁊ ſic ad omneꝫ alium punctuꝫ. b. eſſet
alteratio velocior q̃ ad punctum correſpōdentẽ. a. preter
q̃ ad extremũ intenſius: quo poſito per. b. iſtius alteratio/
nis erit corruptio terminata ad nō gradum per quaꝫ vni/
formiter difforme fiet vniforme vel nō qualificatuꝫ: ergo
ita poſſet eſſe ecōtra per partialeꝫ generationẽ. ¶ Si per 6ª regᵃ
generationẽ latitudinis vniformiter difformis alteratio/
nis extremo intenſiori ꝑcedente de vniformi fiat vnifor/
miter difforme infinituꝫ tarde incipit iſta latitudo ꝑgre/
di: quia ſi nō: ſit illud ſubiectũ. a. ⁊ ſit nunc finis iſtius tem/
poris: ⁊. b. vniformiter difforme terminatũ ad ſummũ: ita
ꝙ quilibet punctus. b. per tantũ diſtet a ſummo ſicut pun
ctus correſpōdens. a. diſtat a nō gradu ⁊ alteret̃. a. tali la/
titudine ſicut prius mediāte qua fiat corruptio eius qua/
litatis: ita ꝙ extremũ intenſius ſit verſus extremũ remiſ/
ſius ſubiecti que latitudo ſemper extendat̃ in parte alte/
rata vt prius: ⁊ intendat̃. b. ad ſummuꝫ mediante ꝯſimilı̃
alteratione: ita ꝙ ad omneꝫ punctum. b. verſus extremũ
intenſius ſit equalis alteratio ſicut ad punctum correſpō/
dentem. a. verſus extremuꝫ remiſſius: tunc ad omneꝫ pun
ctum. a. eque cito deueniet nō gradus ſicut ad punctũ cor/
reſpondenteꝫ. b. deueniet gradus ſummꝰ vt patet: eo ꝙ ad
omneꝫ punctum vnius eſt tanta alteratio ſicut ad punctũ
correſpōdenteꝫ alterius: ⁊ oĩa puncta. b. equaliter diſtant
a ſummo ſicut puncta correſpōdentia. a. a nō gradu: ergo
equeuelox cōtinue erit inductio alteratiōis in iſtis duobꝰ.
in. a. eniꝫ equeuelociter educit̃ ſicut qualitas: ⁊ in. b. eque/
uelociter ſicut gradus ſummus inducit̃. cuꝫ ergo in infini/
tum remittet̃ inductio gradus ſummi in. b. per ꝯneꝫ 17ᵃᵐ
de inductione gradus ſummi: ſequit̃ ꝙ in infiᵐ tarde rece
det eiꝰ alteratio a toto: ⁊ ſic erit de. a. ſed equeuelociter in/
ducet̃ alteratio ab. a. ſicut ꝑus inducebat̃: q2 ad omnẽ pun/

ctum equecito remittet̃ qualitas ad nõ graduꝫ ſicut prius
acqrebat̃:ergo in infinitũ tarde incipiebat induci qđ fuit
7ª regª ꝓbandum.❡ Si per gñãtionem latitudinis vniformiter
difformis vniforme fiat vniformiter difforme extremo re
miſſiori ꝓcedente ꝛ alio quieſcẽte in infinitũ velociter inci
pit iſta latitudo ꝓgredi in idẽ ſubiectum vt ꝓxime iam de/
monſtrat̃:eo ꝙ ꝓbatum eſt cõcluſione 2ª de inductione
gradus ſummi: ꝙ in infinitũ velociter inducetur gradus
ſumm⁹ in ſubiectũ vniformiter difforme terminatum ad
ſummũ alteratũ latitudine vnifor' difformi extremo intẽ/
ſiori verſus extremuꝫ remiſſius ſubiecti. ❡ Si per ſubm
vnifor' fiat vniformis alteratio gradus alterationis vni/
formis cõtinue manentis vniformis qui gradus intendat̃
vel remittat̃ iſto ſubiecto aliunde nõ moto, illud ſubiectũ
8ª regª. nõ põt fieri vnifor' difforme. ❡ Si enim alteratio inten
datur:ſequit̃ ꝙ in ſcđa medietate iſtius tẽporis maior la/
titudo acquiret̃ ad extremuꝫ ꝙ̃ in pͥma medietate acqrit̃
ad extremũ ideꝫ:ꝛ tanta latitudo acquiret̃ in ſcđa medie/
tate ad punctũ mediuꝫ ſicut ad extremũ acquirit̃ in eadẽ
medietate:eo ꝙ alteratio erit vniformis: ꝛ per totã iſtam
ſcđaꝫ medietatẽ durabit iſta alteratio ad punctũ illuꝫ me
diuꝫ:ergo nõ in duplo maior latitudo acqret̃ ad extremũ
ꝙ̃ ad punctũ mediuꝫ:ꝛ per ꝯñs totũ nõ fiet vnifor' diffor/
me.Si vͦo fit remiſſio alterationis: ſequit̃ ꝙ in pͥma me/
dietate tpis maior latitudo acqret̃ extremo ꝙ̃ in ſcđa me/
dietate:ꝛ ad punctũ mediuꝫ tanta latitudo ꝓciſe acquiret̃
ſicut ad extremũ in 2ª medietate tpis: eo ꝙ alteratio erit
vniformis per ſcđaꝫ medietatẽ tpis ad punctũ mediũ ſo/
lum durãs:ergo plus ꝙ̃ in duplo maior latitudo acqreťur
ad extremũ ꝙ̃ ad punctũ mediuꝫ: ꝛ per ꝯñs cum totuꝫ fit
vniforme vel nõ qualificatũ ꝛ in fine latitudo acqſita ter/
minabit̃ ad nõ graduꝫ:ergo totũ nõ fiet vnifor' difforme.
9ª regª. ❡ Per vniformẽ generationẽ latitudinis alterationis vni/
formiter difformis per ſubiectũ vniforme vna cuꝫ varia/
tione alterationis illud ſubiectum fiet vnifor' difforme:ꝛ
3 regª quelꝫ eius pars qđcũqꝫ extremũ ꝓcedat. ❡ Cõtra illã ſic
arguit̃.Si extremũ remiſſius precedet tardior ꝯtinue erit
alteratio ad punctũ mediuꝫ ꝙ̃ ad extremũ in quo incipit
alteratio progredi:ꝛ per in duplo minus tps erit alteratio
ad punctum mediuꝫ ꝙ̃ ad extremũ:ergo plus ꝙ̃ in duplo
maior latitudo acqret̃ ad extremũ ꝙ̃ ad punctũ mediuꝫ:
ꝛ tota latitudo acquiſita termiabit̃ ad nõ graduꝫ:eo ꝙ ad
illud extremũ preciſe in fine deueniet alteratio: ergo iſta
latitudo acqſita nõ erit vniformiter difformis: ꝛ per ꝯñs
cum totũ in pͥncipio ſit vniforme:ſequit̃ ꝙ tũc nõ erit vni/
formiter difformis.Simil'r ſi extremũ intenſius ꝓcedet:ꝗ
erit velocior intẽſio ꝯtinue ad pũctũ mediuꝫ ꝙ̃ ad extre/
muꝫ:ꝛ per in duplo minus tps:ergo nõ in duplo maior la/
titudo acquiret̃ extremo ꝙ̃ puncto medio: ſequit̃ ergo ꝙ
nõ vnifor' difformiter: ergo ꝯcl'o falſa. ❡ Iſta tñ ſic argͣ.
Sit.b.vnuꝫ vniforme vel nõ qualificatũ ꝛ inducat̃ in.b.
vniformiter alteratio vniformis: que manens vniformis
cõtinue intendat̃:ꝛ ſequit̃ ꝙ ad omneꝫ punctũ intrinſecũ
b.erit qualitas intenſior ꝙ̃ ſi latitudine acquirenda fieret
vniformiter difforme:vt probatum eſt cõcluſione octaua.
Ponat̃ enim ꝙ ad extremũ.a.cõſimile.b.oĩno cõtinue ſit
equalis intenſio ſicut ad extremũ.b. ꝛ ad puncta intrinſe/
ca.a.ſit tardior alteratio ꝙ̃ ad puncta corrñdentia.b.ꝛ ad
oĩa puncta.a. per equale tẽpus alteratio durabit ſicut ad
puncta corrñdentia.b.ita ꝙ quelꝫ pars alterãda.a.ꝯtinue
maneat vniformiter difformis: quo poſito alteratio vni/
formiter generabit̃ vt notuꝫ eſt:ꝛ quelꝫ pars alteranda.a.
manebit. ꝯtinue vniformiter difformis vt ponit̃ in caſu:ꝛ
alteratio cõtinue manebit vniformiter difformis:q2 nullũ
vniformiter difforme alteratuꝫ põt manere vniformiter

difforme niſi mediante alteratione vniformi vel vnifor/
miter difformi:vt ꝓbatum eſt in pͥncipio de inductiõe gra
dus ſummi cõcluſione ſcđa ꝛ cõcluſione quarta. Sed iſta
alteratio nõ erit vniformis:vt notum eſt:q2 alteratio in.b.
manebit vniformis ꝛ ad extremũ.a.ꝯtinue erit equalis al/
teratio ſicut ad extremũ.b.ꝛ ad pũcta intrinſeca.a. remiſ/
ſior alteratio ꝙ̃ ad pũcta corrñdentia.b. ſequit̃ ergo ꝙ al/
teratio.a.cõtinue manebit vniformiter difformis:ergo ſe/
quit̃ cõcluſio:caſus pꝫ cũ ꝯcluſione. Sit eniꝫ.a.vniformi/
ter difforme terminatũ ad nõ gradum alteratũ latitudine
vniformiter difformi ab octo vſqꝫ ad ſex.Et ponat̃ ꝙ me
diante gradu vt ſex poſſet extremũ intenſius iſti⁹ remitti
ad nõ graduꝫ in hora ꝛ fiat in ſcđa hora vniformis remiſ/
ſio alterationis ad extremũ ab octo vſqꝫ ad quatuor ꝛ ad
punctũ mediuꝫ vbi nũc eſt vt ſeptem remittat̃ ad quinqꝫ
vniformiter in medietate hore:ꝛ ita ꝺ alijs punctis corrñ/
dentibus.ſ.ꝙ ꝓportionabil'r ſicut alteratio ad iſta puncta
per minus diſtat a ſex: ita per minus tẽpus ad illa remit/
tatur alteratio.ꝛ hoc vniformiter ita ꝙ ſex ſit gradus me/
dius cuiuſlibet alterationis ad oẽm punctuꝫ deperdende:
quo poſito hic erit vniformis remiſſio alteratiõis:q2 ſicut
puncta ſunt ꝓpinquiora extremo remiſſiori: ita per min⁹
diſtant alteratiões ad iª a gradu vt ſex: ꝛ ſi ſic ꝓportiona/
biliter ſicut ꝓpinquiora ſunt puncta extremo remiſſiori:
ita per minus tps ad iª remittet̃ alteratio ꝛ poſtꝙ̃ altera/
tio fuerit remiſſa nõ manebit aliqua ibi vt ſuppono:ergo
ſicut eadeꝫ pũcta ſunt extremo remiſſiori ꝓpinquiora:ita
per minus tps durabit alteratio:ꝛ ſi ſic ſequit̃ ꝙ erit vni/
formis remiſſio alterationis ꝛ eductio a toto: ꝛ totum nũc
eſt vniformiter difforme ꝛ fiet nõ qualificatuꝫ ſi nõ indu/
cat̃ alia qualitas qđ ſupponit̃ eſſe veruꝫ:ad oẽm eniꝫ pun
ctum correſpõdebit alteratio gradui vt ſex: q2 oĩs motus
qui vniformiter deperdit̃ gradui medio corrñdet: ꝛ ſicut
puncta ſunt ꝓpinquiora:ita per minus diſtãt a nõ gradu:
ꝛ ſic per minus tẽp⁹ ad iſta durabit alteratio. Cũ ergo ad
extremũ remittet̃ eius qualitas ad nõ graduꝫ in hora: ſe/
quit̃ ꝙ ad oĩa alia puncta ſicut ſunt extremo ꝓpinquiora:
ita in tpe minori remittet̃ qualitas ad nõ graduꝫ:ꝛ ſic iſta
alteratio ꝯtinue manebit vniformiter difformis extremo
remiſſiori verſus extremũ remiſſius ſubiecti:eo ꝙ nũc eſt
vniformiter difforme extremo remiſſiori verſus extremũ
remiſſius ſubiecti ꝛ vno gradu vniformi remittet̃ vt cõ/
ſtat. Et ex hoc ſequitur ꝙ pars alteranda continue ma/
nebit.vniformiter difformis: quia nunc eſt vniformiter
difformis:ꝛ ſemꝑ alterabit̃ latitudine vniformiter diffor/
mi.Ergo ecõtra per inductionẽ vniformẽ alterationis cõ/
ſimilis ſicut nũc erit eductio in ſubiectũ vniforme vel nõ
qualificatũ:ita illud ſubiectũ fiet vnifor' difforme: ꝛ tunc
extremũ remiſſi⁹ ꝓcedet.❡ Idẽ ꝓbat̃ extremo intenſiori
ꝓcedente.Sit eniꝫ.a.vnifor' difforme vt pͥus terminatũ ad
nõ graduꝫ ꝛ alteret̃ a quatuor vſqꝫ ad ſex:ꝛ ponat̃ ꝙ me/
diante gradu vt ſex:poſſet extremuꝫ intenſius remitti ad
nõ graduꝫ in hora ad qđ extremũ in hora intẽdat̃ altera/
tio vnifor' ab iſto gº vt quatuor vſqꝫ ad octo: ꝛ ſicut pun/
cta aº per minus diſtãt a ſummo:ita per min⁹ tps ad iª in/
tendat̃ alteratio:ita ꝙ ſex ſit gradus medi⁹ latiᵗᵘᵈⁱˢ acqſite:
ꝛ ſeq̃t̃ vt pͥus ꝙ totũ nũc eſt vniͬ difforme ꝛ fiet nõ quali/
ficatũ:ꝛ alteratio manebit vnifor' difformis ꝛ erit vnifor/
mis eductio iſtius alterationis a toto.deductio pꝫ vt pͥus:
ꝗ ecõtra per vniforme vel nõ qualificatũ poſſet eſſe talis
latitudinis inductio vniformis extremo intẽſiori vſus extremũ
remiſſi⁹ ſubti:ita q2 totum fiat vniͬ difforme ꝛ ẽt quelꝫ eiꝰ
pars.❡ Iõ ꝯcedit̃ ꝯcl'o.ꝛ ad arᵐ in oppoᵐ negat̃ ꝯñs.ad
extremũ erit ꝯtiᵉ velocior alteratio:ꝗ plus ꝙ̃ dupla. latiᵗᵘᵈᵒ
acqrit̃.Añs eniꝫ nõ eſt verũ niſi intelligeret̃ qñ ſimul ad

extremū: ⁊ ad punctū mediū erit alteratio: ⁊ hoc eſt veꝛ:
prius tñ erit tardioꝛ ad extremū ꝙ̄ ad punctū mediū: ita
ꝙ tota alteratio cathegoce ad extremum.a.correſpōdebit
eidē gradui ſicut tota alteratio ad punctū medium: ſicut
in caſu iſto ad oēm punctū corrn̄debit tota alteratio gra/
dui vt ſex ⁊ ad extremū intenſius vniformiter a quatuoꝛ
vſq; ad octo: ⁊ ad oēm punctū medium a quinq; vſq; ad
ſeptē ſicut in via eductionis ad extremū remittet̄ altera/
tio vnifoꝛ ab octo vſq; ad quatuoꝛ: ⁊ ad punctū mediū
a ſeptē vſq; ad quinq;. Conſilr̄ dicit̄ ad argumētū cōclu
dens ꝙ nō in duplo maioꝛ latitudo acquiret̄ extremo ꝙ̄
puncto medio negādo ꝯñtiā: q2 ꝙ̄uis q̄n ſimul erit alte/
ratio ad illa puncta, velocioꝛ erit alteratio ad punctū me/
diū ꝙ̄ ad extremū: prius tamē velocioꝛ erit alterio ad ex/
tremū ꝙ̄ tunc erit ad punctū mediū: ita ꝙ tota alteratio
ad extremū eidem gradui correſpōdebit ſicut ad punctū
mediū: ⁊ ſic nō valet argumentū. Si tamē tota alteratio
ad extremū eſſet velocioꝛ tota alteratiōe ad punctū me/
dium: tunc bene ꝓcederet argumentū: qḋ tñ eſt falſum ⁊
10ª regª repugnās. ¶ Per vniformē generatione alterationis va/
riate ad nō gradū terminate per ſubiectū vniforme vel
nō qualificatū poterit ſubiectū tale fieri vnifoꝛ difforme.
3 regª ¶ Contra illā ſic arguit̄. Si ſic: ſit.a. tale ſubiectum ⁊ ſit
ſibi equale oīno ⁊ ꝯſimile.b.in qḋ inducat̄ vnifoꝛ gradus
alterationis: ita ꝙ ad extremū.b.tanta latitudo acquirat̄
ſicut ad extremū.a.tunc.b.erit vnifoꝛ difforme iſta latitu/
dine qualificatū vel tāta ſicut latitudo acquiſita.a. ergo.a.
nō erit vnifoꝛ difforme iſta latitudine. ꝯña arguit̄ ſic. infi
nite velocioꝛ cōtinue erit alteratio ad aliquē punctū.b.ꝙ̄
ad punctū correſpōdentē in.a.eo ꝙ in.a. terminabit̄ alte/
ratio ad nō gradū: ⁊ ſic ad oīa puncta.b. corrn̄dentia per
equale temp⁹ durabit alteratio: ergo ad aliquē punctū ma
ioꝛ latitudo acquiret̄ ꝙ̄ ad punctū correſpōdentē.a.ergo
nō erit.a. vnifoꝛmiter difforme eadē latitudine cū.b.ergo
cōcluſio falſa. ¶ Et tamē ꝙ ſit vera arguit̄ ſic. Sint.a.b.
equalia vniformia eodē gradu vel nō qualificata ⁊ indu
catur in.b. vnus gradus alterationis nō variate vnifoꝛ: ⁊
ponat̄ ꝙ q̄ñcūq; deuenerit alteratio ad aliquē punctū.b.
ꝙ tunc ad punctū correſpōdentē.a.alteratio incipiat intē/
di a nō gradu que vniformiter intēdat̄ ab iſto inſtāti vſq;
in finem tp̄is a nō gradu ad gradū duplū ad illum gra/
dū qui vniformiter generat̄ per.b. tūc ad oēm punctū.a.
correſpōdebit tota alteratio eidē gradui ſicut ad punctū
correſpōdentē.b.eo ꝙ alteratio.b.erit gradus medius to
tius latitudinis acquiſite ad punctū correſpōdentem.a. ⁊
ſemꝑ per equale temp⁹ durabit alteratio ad oēm punctū
a.ſicut ad punctum correſpōdentē.b. vt ponitur in caſu:
ergo ad omnem punctum.b. in fine erit equalis latitudo
acquiſita ſicut ad punctum correſpōdentē.b. ⁊ per primā
cōcluſionē.b.eſt vniformiter difforme: ⁊.a. nūc eſt cōſilr̄
b.ergo.a.nunc erit vniformiter difforme ⁊ erit vniformis
generatio alterationis per.a.q2 per.b. vniformiter genera/
bitur ⁊ ad punctum.a.equecito preciſe deueniet alteratio
ſicut ad punctum correſpōdentē.b. ⁊ etiā alteratio.a.cō
tinue terminabit̄ ad nō gradum: quia ſemꝑ incipit eſſe al/
teratio de nouo ad aliquē punctum: ⁊ quādocūq; ad ali/
quem punctū eius incipiet alteratio, ibi incipiet a nō gra/
du intendi: ergo ſequit̄ cōcluſio cōcedenda. ¶ Et ad argu
mentū in oppoſitū negat̄ ꝯña. Infinite velocioꝛ continue
erit alteratio ad aliquē punctū.b.ꝙ̄ ad punctū correſpō/
dentem.a.⁊c̃. ergo ad aliquē punctum.b.maioꝛ latitudo
acquiret̄ ꝙ̄ ad punctum correſpōdentē: q2 quiſcūq; pun
ctus.a.detur: licz ad iſtum in fine remiſſa erit alteratio: ad
illum tamē prius erit velocioꝛ ꝙ̄ ad punctū correſpōden/
tem.b.ita ꝙ tota alteratio cathegoce ad oēm punctum.a.

eidem gradui correſpōdebit ſicut ad punctum correſpon
dentem.b.ſicut ſatis p3 ex caſu. ¶ Per vniformē genera/ 11ª regª
tionē alterationis infinite per ſubiectū vniforme vel nō
qualificatū fiet illud ſubiectū vnifoꝛ difforme. ¶ Cōtra
illud arguit̄ ſic. Nō extremo remiſſiori precedente: q2 tūc
ad extremū ſemꝑ eſſet alteratio infinita: ergo infinita lati/
tudo eſſet acquiſita ad illud extremū: ⁊ per cōſequēs totū
nō poſſet eſſe tunc vniformiter difforme: nec extremo in/
finito precedente: q2 ſi ſic inducat̄ in.b.cōſimiliter ſicut in
a. vnus gradus alterationis vniformiter: ita ꝙ.b.ſit vnifoꝛ/
miter difforme eadem latitudine qua.b. Cōtra. infinite ve
locioꝛ cōtinue erit alteratio ad aliquē punctū.a. ꝙ̄ ad pun
ctum correſpōdentē.b.ergo cū per equale temp⁹ ad oīa
puncta.a.b.correſpōdentia durabit alteratio: ſequitur ꝙ
ad aliquem punctū.a.maioꝛ latitudo acquiret̄ ꝙ̄ ad pun/
ctum correſpōdentē.b. ⁊.b.tunc erit vniformiter difforme
latitudie acquiſita.a.ergo.a.nō erit vniformiter difforme.
¶ Sed ꝙ cōcluſio ſit vera arguit̄ ſic. Sint.a. ⁊.b.vnifoꝛ/
mia vel nō qualificata oīno cōſimilia: ⁊ inducat̄ in.b.vn⁹
gradus alterationis vniformiter: ⁊ ponat̄ ꝙ quādocunq;
alteratio deueniet ad aliquē punctū.b. ꝙ tunc ad punctū
correſpōdentē.a.incipiat eſſe alteratio īfinita que vſq; in
finem tēporis remittat̄ ſic ꝙ correſpōdeat vt deperditur
gradui quo.b.alterabit̄: tunc ſequit̄ cōcluſio. nam ad oēm
punctū.a.correſpōdebit alteratio eidem gradui ſicut ad
punctū correſpōdentē.b. ⁊ per equale temp⁹ erit alteratio
ad omnia puncta correſpōdētia.a.b.ergo ad oēm punctū
a.equalis latitudo acquiret̄ ſicut ad punctū correſpōden/
tem.b.cum ergo.b.tunc ſit vniformiter difforme: ſequitur
ꝙ.a.tunc erit vniformiter difforme ⁊ ſemꝑ alteretur alte/
ratione infinita vniformiter generata vt p3: ergo ſequitur
cōcluſio: ideo cōcluſio eſt cōcedenda. ¶ Et dicit̄ ꝙ licz infi
nite velocioꝛ erit ſemꝑ alteratio ad aliquē punctum.a.ꝙ̄
ad punctum correſpōdentem: poſt tamē erit tardioꝛ alte/
ratio ad omnē punctū.a. ꝙ̄ ad punctum correſpōdentē
b.ita ꝙ tota alteratio ad omnem punctū.a. eidem gradui
correſpōdebit ſicut ad punctum correſpōdentē.b. vt p3
per caſum: ⁊ ſic nō ꝓcedit argumētū factū in oppoſitum
cōcluſionis. ¶ Per equevelocē generationē latitudinis 12ª regª
infinite ⁊ latitudinis ad nō gradum terminate per ſubie/
cta equalia nō qualificata ⁊ vniformia eodem gradu iſta
ſubiecta fient eadem latitudine vel equalia vniformiter
difformia. ¶ Contra arguit̄ per argumēta prefata contra
duas proximas: ⁊ veritas etiā ex duab⁹ ꝓximis ſatis p3.
¶ Per vniformē generationem alterationis infinite per 13ª regª
ſubiectū vniforme fiet illud ſubiectū vniforme. ¶ Cōtra
iſtud ſic arguit̄. Si fiet vniforme ſignet̄ gradus quo tunc
erit vniforme: ſequitur ꝙ ad extremū verſus qḋ progre/
ditur ſubito acquiretur tota latitudo inter gradum illum
ſub quo nunc eſt ⁊ gradum ſub quo erit in fine: quia tunc
primo deueniet ibi alteratio: ergo per illud tunc ad omnē
punctū intrinſecum erit ante finem infinita alteratio: ſe/
quitur ꝙ ad omnē punctū intrinſecum ſubito tanta lati/
tudo acquiret̄ ⁊ per totum tempus manebit alteratio ad
puncta poſtꝙ̄ ad iſta deuenerit: ergo ad omnē punctum
intrinſecum in fine erit qualitas intenſioꝛ ꝙ̄ ad extremū
verſus qḋ progredit̄ alteratio: ⁊ per cōſequēs totū nō erit
vniforme. ¶ In oppoſitū arguit̄ ſic. Sint.a.b.vniformia
vel nō qualificata omnino ſimilia ⁊ ꝓgrediatur alteratio
vniformiter vel generet̄ in.b. ſic ꝙ ſicut puncta extremo
verſus qḋ progreditur alteratio illi extremo ſunt propin/
quiora: ita velocioꝛ ad illa puncta maneat vniformis alte/
ratio ſicut ad extremū a quo incipit tunc eſſe progreſſio
ſit in duplo tardioꝛ alteratio per totū tempus ꝙ̄ ad pun/
ctum medium per medietatem temporis ⁊ in quadru/

plo tardior ꝙ̃ ad punctũ terminantẽ tres quartas verſus extremũ verſus qḋ ꝓgredit̃ alteratio ⁊ ſic in infinitũ. Et ponat̃ ꝙ quãcũqꝫ deueniet alteratio ad aliquẽ punctũ.b. incipiat ꝓnunc eſſe alteratio infinita ad punctũ correſpondentem.a. ⁊ ꝯtinue vſqꝫ in finẽ tꝑis remittat̃: ita ꝙ vt deꝑdit̃ correſpõdeat gradui extẽſo ad punctũ correſpondentẽ.b.quo poſito ſequit̃ ꝙ in.a.b. vniformis vel non qualificata erit vniformis gñãtio latitudinis alterationis in.a. latitudinis infinite ⁊ vtrũqꝫ in fine erit vniforme:q2 ꝓportionabiliter ſicut puncta ſunt ꝓpinquiora extremo.b. verſus qḋ ꝓgreditur alteratio:ita ad iſta per minus tempus durabit alteratio:⁊ ita gradui intẽſiori correſpondebit:ergo ad oĩa puncta b.equalis latitudo acquiret̃.cum ergo totũ nũc ſit vniforme vel nõ qualificatũ:ſequit̃ ꝙ in fine erit ipſm vniforme ⁊ ad oẽm punctũ.a.equalis latitudo acquiret̃ ſicut ad punctum correſpondentẽ.b.eo ꝙ ad oẽm punctũ.a. per eq̃le tꝑs durabit alteratio ſicut ad punctũ correſpondentẽ.b. eidẽ gradui ad puncta correſpondentia alterãtibꝰ corporibꝰ illis: ergo in fine erit.a. vniforme: qḋ fuit ꝓbãdũ. ¶ Pro iſto ergo cõceditur ꝯñs:⁊ ad argumentũ in oppoſitũ cõcedo ꝙ ſubito ad vnũ extremũ acq̃ret̃ tota latitudo que eſt inter gradũ nõ habitũ vel nõ gradũ:⁊ gradũ hñdum in fine. Et negat̃ ꝯña qñ vlterius cõcludit̃ ꝙ eadẽ rõne ad oẽm aliũ punctum tanta latitudo acq̃ret̃:q2 ad iſtũ erit infinita alteratio.nõ.n.erit ſubito tanta latitudo acq̃ſita ad extremũ:q2 ibi erit alteratio infinita:ſed q2 ad illum punctũ imediate ante finẽ deꝑderet̃ latitudo alterationis infinito gradui correſpõdens:ſed ad quẽlꝫ aliũ punctũ tota latitudo deꝑdita ſolũ finito gradui correſpõdebit:vt ꝓbatũ eſt in cõcluſione ⁊ poſitum in caſu. Si tñ exiſtentia alterationis infinite ad punctũ aliquẽ foret cauſa ſubite inductionis latitudinis bene ꝯcederet argumentũ:hoc tñ nũc eſt negatũ. ¶ Per hoc põt ꝓbari ꝙ per generationẽ gradus vniformis ⁊ latitudinis diffformis tam ad nõ gradũ ꝙ̃ etiã ad gradũ finitũ:⁊ etiã ad gradũ infinitũ terminatũ per vniformiter diffforme poterit iſtud ſubiectũ fieri vniforme: ſeu etiã manere in fine vniformiter diffforme: ⁊ eadẽ argumenta ſunt faciẽda in illis ſicut in ꝓpoſito. Itẽ quaſi oẽs cõcluſiones que demõſtrant̃ in materia de inductiõe gradus ſummi:poſſunt etiã ꝓbari de generatiõe latitudinis ſeu alterationis vniformis per partẽ ante partẽ ſubiecti: eo ꝙ inductio gradus ſummi erit inductio partibus illiꝰ alterationis a tali ſubiecto.hec ergo pro tali materia ſufficiunt ſi bene ſint ꝓpoſita intellecta. ¶ Per.a.ꝯtinue velocius inducet̃ gradus ſummꝰ ꝙ̃ in.b.⁊ in.b.vniforꝰ inducetur:⁊ ſi alteratio.a.in aliqua ꝓportione velocius ⁊ velocius per totum remittet̃ ꝙ̃ nunc remitteret̃ infinite tardius in eodẽ tꝑe inducet̃ gradus ſummꝰ in.a.ꝙ̃ in.b. ex quo ſequitur ꝙ in.a.infinite velociter inducet̃ eius alteratio. Si per totum in aliqua ꝓportione velocius remitteret̃ ꝙ̃ nũc remitteretur:infinite tarde in eodẽ tꝑe inducet̃ gradus ſummus in.a.ꝙ̃ in.b. ex quo ſequit̃ ꝙ in.a.infinite velociter inducet̃ eius alteratio ſi per totũ in aliqua ꝓportione velocius remitteret̃ ꝙ̃ nũc remittet̃:infinite tarde inducet̃ gradus ſummus in.a. ¶ Contra iſtas arguit̃. Si velocius inducet̃ cõtinue in.a.ꝙ̃ in.b.⁊ in.b.vniforꝰ ſit.c. gradus quo inducit̃ gradus ſummꝰ in.b. Et arguit̃ ſic. gradu intẽſiori ꝙ̃ eſt.c.ꝯtinue inducet̃ gradus ſummꝰ in.a. cũ iſta remiſſione alterationis:cum ergo aliquo gradu aliqualiter velociter inducet̃ gradus ſummꝰ in.a. ⁊ aliquo gradu in duplo tardius:⁊ ſic in infinitũ:ergo alteratio in.a. põt remitti velocius ꝙ̃ nũc remittet̃:cũ hoc ꝙ ſolum finite tardius inducetur gradus ſummus in ipſũ ꝙ̃ nũc inducet̃ in ipſũ cũ iſta remiſſione alterationis.ꝯña tenet: q2 vſqꝫ ad finẽ poſſet ad oẽm punctũ eſſe gradus alterationis ſolũ finite re-

Nõ ꝙ hic ei terminari tractatꝰ magiſtri ⁊ ſubſequentes due cõcluſiones vir additę ab alio.

miſſior ꝙ̃ nunc erit ad eundẽ:ergo vtraqꝫ cõcluſio falſa. hoc enim argumentũ fortius vadit cõtra cõcluſionẽ ſcdã ⁊ cõtra quartã. ¶ Ille tamẽ cõcluſiones ſic arguũt̃. Sint enim.a.⁊.b.duo vniformiter diffformia eadem latitudine terminata ad ſummũ per que extẽdant̃ certi gradus alterationis:quo gradu poſſent fieri ſumma in hora:⁊ ſit.a.duplum ad.b. ⁊ ponat̃ ꝙ per alterationẽ.a.extendat̃ vniformiter vna latitudo remiſſionis terminata ad nõ gradum verſus extremũ remiſſius.a. ⁊ in alio extremo terminetur ad talem certũ gradum quo põt alteratio in.a.ad alterum extremũ remitti ad nõ gradũ in hora: ⁊ extendat̃ tota latitudo alterationis cũ latitudine remiſſionis per partẽ.a. ſcḋm ſe totam remiſſã:⁊ maneat alteratio in.b. nõ mutata intenſione per partẽ.b.ſcḋm ſe totam remiſſã: ⁊ nõ intendantur.a.b.in qualitate:quo poſito ad omnẽ punctũ.b.intrinſecũ citius deueniet gradus ſummꝰ ꝙ̃ ad punctũ correſpondentẽ.a.oĩa enĩ puncta.a.b. correſpõdentia equaliter diſtant a ſummo: ⁊ ad omnẽ punctũ intrinſecum.b. ſemꝑ erit alteratio velocior ꝙ̃ ad punctũ correſpondentẽ a. vt pꝫ:⁊ per ꝯñs pars ſcḋm ſe totam remiſſa.a.cõtinue erit plus ꝙ̃ dupla ad partẽ ſcḋm ſe totã remiſſã.b. ꝯña pꝫ:cũ ergo equeciſo fient.a.b.ſumma:ſequit̃ ꝙ pro omni tẽpore terminato ad finẽ gradui plus ꝙ̃ duplo intenſiori correſpondebit inductio gradus ſummi in.a.ꝙ̃ in.b. ergo per aliqḋ tempus terminatũ ad finem plus ꝙ̃ in duplo velocius inducetur gradus ſummꝰ in.a.ꝙ̃ in.b. Añs pꝫ:quia extrema remiſſiora.a.b.equeciſo fient ſumma:ex quo ad iſta extrema continue erit equalis alteratio: ⁊ vtrũqꝫ equeciſo fiet ſummũ ſicut extremũ eius remiſſius: ergo ⁊c̃. Añs pꝫ de b.⁊ idem arguit̃ de.a.q2 pars alteranda.a. cõtinue alterabitur latitudine vniformiter diffformi:ergo ſemꝑ erit vniformiter diffformis:⁊ ꝯtinue terminabit̃ tota eius pars remiſſa ad ſummũ:⁊ alterabit̃ ꝯtinue latitudine terminata ad duos gradus vt pꝫ:q2 primo in fine remittet̃ alteratio ad nõ gradũ ſcḋm alterũ eius extremũ:ergo nõ tardius deueniet gradus ſummꝰ ad puncta intrinſeca ꝙ̃ ad extremũ remiſſius:pꝫ ergo prima pars cõcluſionis ⁊c̃.

¶ Explicit Calculationum opus aureũ magiſtri Raymũdi Suiſeth anglici viri in hac facultate eminẽtiſſimi atqꝫ acutiſſimi:nuper diligenti examine emendatum ab excellenti doctore domino Victore trincauello veneto.

ℭ Victoris Trincauelli Veneti queſtio de reactione iuxta doctrinā Ariſ. ⁊ Auer. Cōmen.

Circa 3ᵐ phyſicoꝝ librū maxime in tex. cō. 8. qſtio admodū difficilis ſolita eſt moueri: que ꝑ ēt de gn̄a. circa. t. cō. 53. ⁊. 54. a Modernis ſolēt ꝑſcrutari: q̄ talis eſt. Nūqd oē agēs nāle dū agit in paſſū repatiat̄ ab ipo paſſo: ita vt fugere nō poſſit qn̄ paſſū etiā aliq̄ modo in ipm nō agat. res difficilis valde hn̄s ad vtrāq; ptē magnos fautores ⁊ fortes rōnes: q̄ lʒ inumere hincinde ab auctorib⁹ diuerſis afferant̄: nos tn̄ nimiā ꝓlixitatē fugiētes eas tātū addicemus, que nobis tāgere vident̄ pūctū ⁊ ſubam difficultatis. Et primo ponem⁹ argᵗᵃ ꝓbātia reactionē eē impoſſibilē. deinde ea que partē oppoſitam cōprobāt.

ℭ Qꝫ igit̄ impoſſis ſit reactio in agētib⁹ ⁊ paſſis/ p⁹ rō ē hec: ſit ita/ qꝺ aliqꝺ agēs in paſſū aliqꝺ agat: vtputa. a. i. b. qꝺ a. dū agit/ ab ipo ēt. b. paſſo repatiat̄. tūc q̄ro vtrū po⁹ vtriuſq; tā agētis q̄ꝫ paſſi ſit eq̄lis/ vl' ineq̄lis: nō eſt dām q̄ ſit eq̄lis: ga a ꝓpor° eq̄litatis nō ꝓuenit actio: vt accipi pōt a Cōm. 4° phy. cō. 71. vbi dicit q̄ actio ſp ꝓuenit ex victoria motoris ſupra paſſū. eadē ēt ſniaꝫ phs expſſe ponit in libello de motib⁹ aialiū: hec ēt tanq̄ pn̄ᵐ: vtit̄ phs 8° phyſi. pluib⁹ in locis. ſi vo ſunt ineq̄les po°. a. ⁊ po°. b. tūc debilius nō agit in forti⁹ aliq̄ modo. ſed tātū forti⁹ in debilius: ſi. n. equale non pōt agere ineq̄le/ multo minus debilius in id qꝺ eſt fortius: a ꝓportione. n. minoris inequalitatis nō ꝓuenit actio. Et hoc argᵐ a Burl. ponitur hic.

ℭ 2ᵃ ratio ꝫ idē ꝓbās eſt Calcu̇ᵗᵒʳⁱˢ admodū diffiᵗⁱˢ circa quā poſteᵣᵢₒᵣₑₛ oēs laborauerūt. data reactione inter agēs ⁊ patiēs vnū abſurdū ſeq̄ret̄: qꝫ. ſ. duo ꝫria ſil' ⁊ ſel' in eadē pte ſubi intēderent̄/ qꝺ oino ipoſſe eſt: ⁊ phie pn̄ᵐ repugnās: lʒ gdā ex medicis forſitā ꝫ nō hēant pro icōuenienti. Qꝫ aūt ꝫ ſequat̄ facillime pōt ꝓbari: ſit eiꝫ. a. q̄ in. b. agit: ⁊ a. b. ēt repatiat̄: ⁊ ſupponat̄: q̄ lʒ. a. ꝑ totū. b. agat: ipm tn̄. b. nō poſſit ſuā actionē ꝑ totū. a. diffundē: ſꝫ ſolū talis reactio fiat per mediet̄ ipi⁹. a. ex q̄ eiꝫ. a. eſt potētior. b. poterit ad maiorē diſtātiaꝫ agē q̄ꝫ. b. q̄re pars ipi⁹. a. q̄ patit̄ ab ipſo. b. appellet̄. c. ꝫ ſuppȯᵗᵒ deducit̄ q̄ in. c. pte ipi⁹. a. ſil' introducent̄: ⁊ itēdent̄ duo ꝫria: vtputa caliᵗᵃˢ ⁊ frigiᵗᵃˢ: qꝺ deducit̄ ꝫ mō: ſit. a. ignis q ꝑ caliᵗᵉᵐ in. b. aquā agat: ⁊ ꝑ friᵗᵉᵐ ab ea patiat̄: tūc maniᵐ eſt q̄. c. ps ipſi⁹. a. patit̄ ꝑ friᵗᵉᵐ a. b. ⁊ idē ēt. c. ab aliqs ptib⁹ ipi⁹. a. q̄ ab ipo. b. nō repatiunt̄ calefiet: qꝺ ꝓbat̄: qa ex q̄ alie ptes. a. ſunt in ſua caliditate: ⁊ in. c. eſt friᵗᵃˢ a. b. inducta erit iter. c. ⁊ alias ptes. a. ꝫrietas: ſꝫ vbi eſt ꝫrietas ibi actio ⁊ paſſio: q̄re alie ptes. a. agēt in. c. ꝑ caliditatē: ⁊. b. ex alia pte per friditatē: q̄re ſil' ⁊ ſemel calefiet. c. ⁊ ifrigidabit̄: qꝺ eſt penit⁹ ipoſſibile ⁊ ꝫtra phie pn̄ᵃ: vt pꝫ.

ℭ Ad ꝫ ēt incōueniēs deducūt moderni alio meᵒ: ſit ita q̄ inter agēs ⁊ paſſū ſit aliqꝺ meᵐ ſicꝫ ſi eēnt duo corpa ſolida vt ferrū ignitū ⁊ glacies que nō pſſt ſe tāgē imeᵗᵉ: vt docet Ari. 2° de aia. tex. cō. 113. ſꝫ neceſſe eſt vt iter ea mediet aer aut aqua: tūc ſi ferrū calefacit glaciē: quero vtrū a glacie ifrigidet̄: vl' nō: ſi nō refrigerat̄: q̄ꝫ nō reagit: q̄re eſt ipoſſis reactio: ſi reagit ⁊ refrigerat ferrū: cū calefactio a ferro et ifrigiᵒ a glacie nō ꝓcedāt niſi ꝑ aerē meᵐ: q̄ꝫ aer medi⁹ ſil' ⁊ ſel' ifridat̄ ⁊ calefit: qꝺ vt dixim⁹ ex toto ē abſurᵐ ⁊ ipoſſe.

ℭ 4ᵐ arᵐ ad ꝫ idē ꝫfirᵐᵃⁿˢ eſt ꝫ: ꝫceſſa reactiōe vi ſeq vnū qꝺ oino repugnat phyᶜᵒʳᵘᵐ pn̄ᵒ. ſ. nullū agēs poſſe pfcē aſſilare ſibi paſſum: ⁊ ad eūdē gᵐ reducē in q̄ ipm eſt. Qꝫ aūt ꝫ ſequat̄ facile pōt ꝓbari: q: ſi aliqꝺ calidū ſūme velit ſubm friqᵐ ſibi aſſilare/ ſit ſūme cal'm vt octo: ⁊ ſit illꝺ qꝺ itēdit aſſilare friqᵐ vt. 6. tūc ſi ꝑ te calꝫ dꝫ friqᵐ aſſilare ſil' a friᵒ patit̄: q̄re ei⁹ caliᵗᵃˢ remittit̄ ⁊ efficit̄. v̇ g. cal'm vt. 7. tū q̄ro qd ꝺducet id qꝺ friqᵐ eſt ad caliᵗᵉᵐ vt octo nō tale agēs qꝺ erat ſūme calꝫ: q: ꝑ ſuppᵐ iaꝫ eſt effcm̄ calꝫ vt. 7. ſꝫ calꝫ vt 7. nō pōt ꝑducere ad cal'itatē vt. 8. q: nihil agit vltra propriū gᵐ: tūc. n. ſile in ſile ageret ⁊ min⁹ in maius vt appꝫ: q̄re nullū agēs ad eūdeꝫ gᵐ deducet paſſum in quo ipſꝫ eſt. multa etiaꝫ alia ⁊ inumera fere arguᵗᵃ pro hac pte ſolent afferri q̄ breuitatis cā dimittāt̄: hec. n. ſūt que pūctū hui⁹ rei tangūt ⁊ ex ſolōne hoꝝ facile alia oīa ſoluent̄.

Ad oppoſitā aūt ptē multa ēt afferunt̄. Primo ſenſus ipſe q ꝫ māifeſte teſtat̄: ⁊ experientie multe. ꝫriātib⁹ aūt ſenſu ⁊ rōne dimittēda eſt rō ⁊ ſenſui eſt adherēdū: vt eſt ſnia Ari. ⁊ Auic. rō. n. que ſenſui ꝫdicit ſophiſtica eſt ⁊ vana. ℭ Scdo: auctes inumē Ariſt. Cōm. ſꝫ maxie in lib. phy. 3°. ⁊ ꝑ de gn̄a. t. cō. 33. ⁊. 4. t. 87. ⁊ Themi. ⁊ Alex. ⁊ alioꝝ oiūꝫ peripaᵗᵉᵗⁱᶜᵒʳᵘᵐ manifeſtiſſime huic pti fauētiū. ℭ Rōnes ēt mlte inter quas potiſſi⁹ eſt hec: q: ablata reactiōe auferet̄ mixtio pfecta: qꝺ ē phie. ⁊ Ar. ꝫriū de his tn̄ inferi⁹ longius agem⁹: in pn̄ti hec ſufficiāt.

ℭ Mā difficilis eſt valde qꝺ ex eo maxie pōt eē ꝑſpicuū: q: inumē in ea opiones repiunt̄ inter auctores poſteriores: antiq. n. in hac re nō multū laborauerūt: ſꝫ vnū aduertēdū eſt ne ſim⁹ in equoco q̄ nūc loqmur de actiōe que in vero motu fundat̄. dimittim⁹. n. actiōes pfectiuas ⁊ eas q̄ fiunt in iſtāti ſicꝫ illuminatio ⁊ ſilia ⁊ de nāli tātū actiōe ⁊ agente nāli loqimur qꝺ cū paſſo cōicat in mā/ de q̄ eſt Ari. ſermo.

ℭ Qui de hac re locuti ſunt bipartiti fuerūt: gdā. n. ex toto reactionē negauerūt volentes fugē maxias difficultates q̄ angūt eos q hꝫ reactiōeꝫ ꝺfendere volūt: ⁊ iter alias ipoꝝ rōnes hec fortior eſt: q: ſi agēs eſt tāte vtutis vt poſſit totū paſſū alterare ⁊ ꝓpa q̄litate ꝓuare multo magis poterit ſeipſꝫ a vtute paſſi defendere ⁊ ꝫſuare: difficili⁹. n. vꝫ poſſe aliū offendere q̄ꝫ ſeipſꝫ defendere. ℭ Ad ea vo q̄ pro ipſa reactiōe ſūt adducta. rñdēt pmo auctes Ari. ⁊ Cōm. exponētes dicūt: q̄ ꝑ reactionē Ari. ⁊ aliꝫ nō itellexerūt q̄ paſſū poſſit in agēs agere. hoc. n. ipoſſe eſt: cū potēti⁹ ⁊ fortius ſit agēs patiēte. ſꝫ itellexerūt reactionē ꝓuatiue qꝺ ideꝫ eſt cū reſiᵉ: paſſū. n. q̄ꝫtū pōt reſiſtit ⁊ nitit̄ ꝓhibē actiōeꝫ agētis. ⁊ ꝫ voluerūt Ari. ⁊ aliꝫ auctores antiqores. ℭ Ad rōnē ēt rñdēt q̄ miſcibilia nō reducūt̄ ad tēperiē rōne mutue actiōis, ⁊ reactiōis q̄ eſt iter ipſa: ſꝫ ab ipo generāte ⁊ a virtute ſupiori ipſi⁹ celi. Experientias ēt ꝫrias varie ſoluūt q̄ ne nimiū longi ſimus nūc dimittim⁹: ſi. n. recte ꝑpendant̄ ⁊ eoꝝ expōnes manifeſte videbit̄ q̄ textū corrupāt: ⁊ de his inferi⁹ aliqd dicemus: ad magis. n. neceſſaria nūc ꝓperamus: de his. n. oīb⁹ nobis eſt poſterius habēdus ſermo. p⁹ opio

ℭ Aliꝫ aūt reactionē oīo cōceſſerūt: maior. ſ. ps eoꝝ q pipatheticā Ari. doctrinā ꝓfeſſi ſunt: q lꝫ in hoc ꝫuenerit. ſ. neceſſariā eē reactionē poſitiuaꝫ in reb⁹ nālib⁹: in mō tn̄ ſaluandi taleꝫ reactionē: ⁊ eā ponēdi: ⁊ fugiēdi difficultates ipſaꝫ vndiqꝫ circūſtātes diuerſiſſimi fuerūt: ⁊ lꝫ inumere circa ꝫ fere opiones repiant̄: nos tn̄ eas tn̄ attingem⁹ que ꝓbabiliores ſunt viſe: nimiū. n. tpis ꝫterrerem⁹ ſi oēs iſeq vellemus: ⁊ eſſet magis cā ꝫfuſionis q̄ꝫ doctrine.

Prim⁹ itaqꝫ modus quē examinaturi ſum⁹/ eſt Suiſeth calcuᵗᵒʳⁱˢ q max° eſt hñr⁹ honore multis iā annis: ⁊ qa q̄to magis poſſum⁹ breuitati ſtudem⁹: nō ſūmatiꝫ vniuerſaꝫ ei⁹ pōnē in duas ptes reducem⁹. Ubi ē aduertendū q̄ ſicut duplex reperit̄ modus q̄litatū a quib⁹ pōt actio vera ⁊ mot⁹ ꝓuenire: ita ēt dupl'r de reactiōe loquēdū vꝫ. quedaꝫ. n. ſunt q̄litates que motui locali deſeruiūt: quedaꝫ vo que alterationi: ⁊ ſic iſte q̄litates ſūt diuerſe/ ita etiā eſt diuerſa rō actionis, ⁊ reactiōis in ipſis. ℭ Primo igit̄ de motu locali loquēdo ſic ait Calculator: poſſe eſt in motu locali fieri reactionē: ita q̄ ſi. a. agat in. b. eodē mō. b. reagat in ipm. a. nō qdeꝫ alterādo: ſed ſolū ſm motū localeꝫ. hoc vo Calcula. q̄ſi ex expiētia notū relinq̄: manifeſtū eniꝫ eſt q̄ ſi duo gladiꝫ ꝫtra ſeinuicē moti occurrāt: ambo Calcuᵗᵒʳ

bebetanť:ſiſr duo vaſa fictilia vel vitrea ſepe ꝯtra ſeiuicē lata ambo frāgūtur:nec aliqđ reperiť argᵐ (dicit ipſe Calculator)qđ in hac ꝯcluſione faciat difficultatem.

℞ Si loquimur aūt in alteᵒᵉ:cū actio ꝛ paſſio fiāt rōne ꝯrietatis:paſſū ꝛ agēs poſſūt dupľ ſe hēc.vł.n.ꝯriant ſm ambas vtriuſq; q̄lītes.ſ.actiuas ꝛ paſſiuas vt ignis aq̄:vel ſm vnā tm̄ ꝯrietatē:vt ignis aeri.ſi agens ꝛ paſſuʒ ſint ꝯria in ambabꝰ q̄liᵇᵘˢ:tūc dicit Calcuľ.ſine dubꝰ pōt eē īter ipſa actio ꝛ reactio:nō tm̄ ſm eādē ꝯrietatē ꝛ eādē q̄litēᵗᵉᵐ:ſʒ ſm diuerſas:vtputa ſi ignis agit in aquā p caliᵗᵉᵐ ſił pōt aq̄ in igneʒ agere p hūidiᵗᵉᵐ:nō aūt p frigiᵗᵉᵐ:pōt.n.aq̄ ita vincē ignē p humiᵗᵉᵐ ſic ab eo p caliᵗᵉᵐ vinciť:nec aliqđ arᵐ in ꝯriū hui*us*nſe ꝯnis reperiť dicit ipſe.imo:ſic q̄dā ex Moder.ꝯfirmāt in hāc penitꝰ ſniaʒ deſcēdē vł Com.4ᵒ metheoꝝ.cō.z.vbi vł velle hac rōne miptionē fieri:ꝛ nō alia niſi qꝛ elta ſunt in ſuis q̄liᵗᵃᵗⁱᵇᵘˢ nō eque poᵗᵉˢ vt ibi videri pōt.Calcuᵗᵒʳ tñ hic dicit.ꝭ in eltis puris eē ipoſe:vt.ſ.vſent ſm vnā q̄liᵗᵉᵐ ꝛ ſm aliā vincanť:ſʒ in miptis ſolū hēc locū. ℞ Si aūt de agēte ꝛ paſſo loquimur q̄ vna tm̄ ꝯrietate ꝯrienť:vt ꝯrieᵗᵃᵗᵉ in actiuis tm̄:vł in paſſiuis tm̄:adhuc pōt ꝭ zᵒ imaginari:vel.n.ambo ſunt ſm oēs ſuas ptes ꝯſilia,ꝛ eiuſdē rōnis:taʒ ſm gᵐ q̄ʒ ſm multiᵗᵘᵈⁱᵉᵐ ſorē:q̄ʒ ēt ſm oīa alia que pnt augere vł diminuē poᵗᵉᵐ agētis vł patiētis:vł ſunt diſſilia in ptibꝰ.ſi q̄dē ſint diſſilia ſm eoꝝ ptes:ſic īter ipa pōt eē actio ꝛ reactio ſm eaſdē q̄liᵗᵉˢ ꝛ eādē ꝯrietatē:ſʒ ſm diuerſas ptes:ſi eiʒ ſit.a.hñs diffoꝛᵐᵉˢ ptes in caliᵗᵉ pōt vna eiꝰ pars p caliᵗᵉᵐ agere in.b.ꝛ p aliā pati p frigiᵗᵉᵐ ab ipo.b.vt maniᶠᵉˢᵗᵘᵐ eſt:res hec clara vł ꝛ per ſe nota. ℞ Si ſint aūt tā agēs q̄ʒ paſſuʒ ex toto vniforᵐⁱᵃ:ꝛ ptes ꝯſiles oēs hñtia:tūc dicit Calcuľ.ipoſe eſt ſm eādē ꝯrietatē eādē reactionē:loquendo de vera ꝛ poſitiua reactiōe:que duos ꝯrios motꝰ poſitiuos icludit:vtputa ſi ignis agit in aquā calefaciēdo ipſam,q̧ ab ea ſił ipſe frigefiat.Et aūt ꝭ verū duabꝰ vtiť rōnibꝰ.Prīᵃ ē hec:qꝛ tūc a ꝓpoꝛᵗⁱᵒⁿᵉ minoris ineq̄liᵗᵃᵗⁱˢ ꝓueniret actio vel a ꝓpoꝛᵗⁱᵒⁿᵉ eq̄litatis.Hāc ꝯñciā facile poſſum ꝰdeducē vno ſuppoſito qđ ipſe ꝯ multos imo plꝛes ex modernis auctoribꝰ nitiť ꝓbare.ſ.vnūq̄dq; tñtū eē reſiſtitiuū q̄ʒtū eſt actiuū:cuiꝰ rōnes in pñti dimittemꝰ:qꝛ forſitan de his alias loquemur. Scḋa vo eiꝰ rō per quā negat reactionē ſm eādē ꝯrietatē eſt illa quaʒ a pñtᵉ tetigimꝰ:qꝛ data tali reactione ſequereť in eodē ſubto ſimul intēdi duos motꝰ ꝯrios:qđ eſt ipoſe.

℞ Si aūt q̄rereť aliqs,vñ eſt q̧ in actiōe q̄ fit p motū localē pōt paſſum reagē in ipm agēs:ſic ſi duo corpa rara ꝯ ſe inuiceʒ feranť vtrūq; ꝯdēſať:duo vaſa vtrūq; frāgiť:duo gladij ſił hebetanť.In alteraᵗⁱᵒⁿᵉ vo que fit ſm q̄liᵗᵃᵗᵉˢ actiuas vel paſſiuas ſi aliqđ patiť nō pōt in ipm agēs reagē.Rñdēdū eſt iuxᵃ Calcuᵗᵒʳᵉᵐ q̧ rō diuerſitatis eſt hec:qꝛ in motu alteraᵗⁱᵒⁿⁱˢ nō ſolū alterāti reſiſtūt ptes ad q̄s ꝓuenit alteraᵗⁱᵒ:ſʒ ēt alie ad q̄s nō ꝓuenit alteraᵗⁱᵒ:oēs.n.reſiſtūt ipi agēti:ꝛ appetūt ꝛ conanť ſibi aſſiľare illas ptes ad q̄s alteraᵗⁱᵒ ꝓuenit.vñ ſi ignis in aquā agit ꝛ eſt aq̄ potētioꝛ,aqua nō pōt agē in ignē:qꝛ nō ſoluʒ aq̄ reſiſtūt ptes ignis q̄ ſunt ꝓpinq̄ ipſi aque:ſʒ etiā remote:ꝛ ideo maioꝛ eſt ignis reſiᵃ q̄ʒ poᵃ aq̄.In diuiſione vo nō eſt ꝭ:ꝛ in motu locali:nō.n.reſiſtūt niſi ptes ille ad q̄s ꝓuenit motꝰ aliqs localis:ille aūt ptes ad q̄s nō ꝑtingit localis motꝰ,nihil reſiſtūt:in ꝯdēſatōe.n.tm̄ ille ptes reſiſtūt ꝯdēſanti que ꝯdenſanť:in diuiſione ēt tm̄ ille ptes ad q̄s diuiſio ꝓuenit reſiſtūt diuidenti:alie vo nō.ſi.n.alie reſiſterēt,ꝭ eēt:qꝛ vł mouerenť motu ꝯrio ipi diuidēti:vł qꝛ niterenť ptes diuiſas iuicē ꝯtinuare:qđ falſuʒ tñ eſt:ꝛ inde eſt q̧ vtrūq; pōt hēc ꝓpoꝛᵗⁱᵒⁿᵉ maioris ineq̄litatis ſupra reſiᵃᵐ alteriꝰ:cū in vtroq; nō reſiſtāt niſi ptes quedā ad quas ꝓuenit motꝰ.in alteratione vo nō:ex eo q̧ etiā ptes que nō alteranť reſiſtūt:vt declarat Calculator.

ȝ Calcu latorez. ℞ Hec eſt ſūma opīonis Calcuľ.circa māʒ de reactōe q̄ lʒ ingenioſa ſit mihi tñ,ꝛ dubia valde,ꝛ ex toto Ari.ꝛ antiq̄ ꝑipatheᵗⁱᶜᵒʳᵘᵐ vł ꝯria:ꝛ ne cōfuſe ꝓcedamus:dimiſſa ea diffiᶜᵘˡᵗᵃᵗᵉ que pōt eē circa pᵐᵃᵐ ptē.ſ.de actiōe que fit p motū localē:de ea.n.abūde a rectoꝛibꝰ diſputatū eſt.vnū tñ circa illud dicā:q̧ meo iudicio:ſi de vero motu locali ſimplici ſit nobis ſmo:qui mapie repiť in eltis eadē fere oēs dubiᵗᵃᵗᵉˢ cū ſequātur ꝯnē ſi in illis ſitaťē hēc qꝛ dicat que angūt ſecūdē ptē q̄ōnis.ſi.n.ſit in vno vaſe.v̇.g.ignis ꝛ terra ita vt vincat ignis ꝛ ſua leuitate trahat ſecuʒ terrā ſi terra reagit in tali motu:eadē ſequenť incōueniētia:que ꝯſequūť tenētē dari reactionē ſm eaſdē q̄liᵗᵃᵗᵉˢ actiuas:vt facile poſſet oſtēdi.Sed nūc his dimiſſis vt dixi:qꝛ in poſteᵒʳⁱ pte q̄ōnis de hac re aliq̄d tāgemꝰ.Uenio ad zᵃᵐ ptē q̄ōnis que de q̄liᵗᵃᵗⁱᵇᵘˢ alteratiuis eſt.circa quā duo ſunt dicta a Calcuľ.que mihi falſa videnť ꝛ ꝯria Ari.Priᵐᵘᵐ eſt q̧ īter elta pura nō pōt eē reactio ſm q̄liᵗᵃᵗᵉˢ diuerſas:vt ſi ignis aq̄ appropinqueť:ꝛ agat in ipſaʒ p caliᵗᵉᵐ ab ipa per humiᵗᵉᵐ nō pōt repati.hec mihi ꝛ rōni ꝛ Ari.videnť ꝯria.Scḋm vo eſt q̧ ſi totū agēs ſit homogeneū ꝛ totū paſſuʒ homogeneū ſm eādē ꝯrietateʒ nō pōt eē reactio:ita vt aliq̄d ſił p caliᵗᵉᵐ agat ꝛ patiať ab eodē p frigiᵗᵉᵐ:ꝭ ēt ex toto vł ꝯriuʒ doctrine ꝑipatheᵗⁱᶜᵉ.

℞ Et igiť pᵐᵘᵐ Calcuᵗᵒʳⁱˢ dcm̄ nō ſit rōni ꝛ pñᵐ ꝑipateᵗⁱᶜⁱˢ ꝯſonū facile pōt oñdi.ꝛ lʒ ad ꝭ poſſint plꝛes rōnes afferri:nos tñ duabꝰ tm̄ erimus ꝯtenti,tractis ex fundaᵐᵉⁿᵗⁱˢ Ari.zᵒ de gña.pᵐᵃ aūt hī.t.cō.27.vbi Phs de trāſmutaᵗⁱᵒⁿᵉ eltoꝝ loquēs ait q̧ nō ſolū elta pnt īter ſe trāſmutari,ita vt vnū in alteruʒ ꝯuertať.v̇.g.ignis in aerē vel ecꝯ:ſʒ etiā aliqñ accidit vt ex duobꝰ gñeť vnū zᵐ eltū ab vtriſq; diſtinctū:vtputa ex igne ꝛ aq̄ pōt gñari terra vel aer:ꝭ tñ vt ēt Auer.ibideʒ aſſerit nō ꝯtingit niſi ex actione duoꝝ eltoꝝ totalr:ꝛ ſm ambas q̄liᵗᵃᵗᵉˢ oppᵒˢⁱᵗᵃˢ:ſi.n.in igne q̄dē ſiccitas corrūpať:in aqua vo friᵍⁱᵈⁱᵗᵃˢ fiet ex eis aer:ſi vo ecꝯ fiet terra.ꝭ aūt eēt ipoſe ſi verū eēt Calcuľ.dcm̄:nō poſſe ſimpꝛ eltū ſm vnā q̄liᵗᵉᵐ ſuaꝝ vincē ꝛ agere ſm alteraʒ vo pati ꝛ vinci.ſi.n.ex igne ꝛ aq̄ dʒ gñari aer,opʒ vt ignis vincat aquā in caliᵗᵃᵗᵉ:ꝛ per ſiccitatē ab ipſa vincať vt ex dictis Ariſ.ſatis pōt eē clarū.

℞ zᵃ aūt ratio que ad ꝭ adduci pōt innitiť altero fundaᵐᵉⁿᵗᵒ ex eodē libᵒ accepto:vult.n.Ari.eodē zᵒ t.cō.23.q̧ lʒ vnicuiq; elto due attribuanť q̄liᵗᵃᵗᵉˢ pᶜ:nō tñ ꝭ fit eque p̊:vnūq̄dq;.n.eltoꝝ ex eis vnā ſibi p̊ determinat tanq̄ʒ eius pᵐᵃᵐ ꝛ magis ꝓpoꝛᵗⁱᵒⁿᵃᵗᵃᵐ iſtrm̄:vñ ignis dē p̊ caliᵈᵘˢ aer p̊ humiᵈᵘˢ:aq̄ p̊ frigᵈᵃ:terra p̊ ſicca:vñ dicit Ari.q̧ vnūq̄dq; iſtoꝝ eltoꝝ dē ſimplr vniᵘˢ q̄liᵗᵃᵗⁱˢ:vñ terra magis ſicci q̄ʒ fridi:aq̄ aūt magis frigᵈᵃ q̄ʒ humiᵈᵃ ꝛc.Sit ğ ꝭ pᵐᵘᵐ fundaᵐ.ſ.q̄lʒ eltū p̊ determinare ſibi vnā q̄litateʒ tanq̄ʒ iſtrm̄ magis ſibi ꝓpoꝛᵗⁱᵒⁿᵃᵗᵘᵐ ꝛ p̊nᵗᵉ.zᵐ fundaᵐ ſupponēdū tale eſt:ceteris paribꝰ agēs ſp eſt fortiꝰ in agēdo qđ agit meᵈⁱᵃⁿᵗᵉ iſtrō ſibi mapime ꝓpoꝛtioᵃᵗᵒ ꝛ p̊nᵗⁱ,q̄ʒ qđ agit meᵈⁱᵃⁿᵗᵉ iſtrō ſcḋario ꝛ quaſi(vt ita dicā)accńtali.ꝭ vł luce clariᵘˢ ꝛ expiᵉⁿᵗⁱᵃ pōt cōprehēdi,tā in nālibꝰ q̄ʒ artificialibꝰ.Ex his igiť ſeqť ſtatim,elta nō eē eq̄lr poᵗᵉⁿᵗⁱᵃ in agēdoꝰ ſm vtrāq; q̄liᵗᵃᵗᵉᵐ:imo ſp ceteris paribꝰ fortiꝰ agūt p q̄litatē ipis p̊ attributā q̄ʒ p illaʒ que ſcḋario ipſis ꝯuenit:ꝛ ꝭ ꝯceſſo.ſ.eltuʒ ſimpꝛ eē potētiꝰ ſm vnā q̄litatē:debiliꝰ vo ſm alterā,nullū vł ipoſe neq; icōueniēs ꝯcedē aliqđ eltū ſm vnā q̄litatē agere ꝛ vincere:ſm alterā vo vinci ꝛ pati:qđ tñ negat Calculator in trac.de reactione in reſpōſione ad p̊mā rōnem ꝓbātem reactionē eſſe poſſibilem.Et hec ſufficiāt q̄ntum ad p̊mum Calculatoris dictum.

℞ zᵐ etiā dcm̄ Calcuľ.nō minores iſtātias recipit:ſunt.n.ꝯ ipm iſtᵃⁿᵗᶜ fere auctᵒʳⁱᵗᵃᵗᵉˢ Ari.Com.ꝛ oīuʒ antiq̄rū auctoꝝ:ſunt ēt rōnes nāles:ꝛ expiētie multe.pᵐᵃ q̄dē auctas eſt Ariſt.zᵒ phy.t.cō.8.ꝛ.16.17.vbi expꝛeſſiſſime dicit q̧ oē agēs nāle:qꝛ hʒ poᵗᵉᵐ ꝯiūctā actui cū ꝭ q̧ agit in paſſuʒ ab ipo ēt paſſo repatiť.Jdē ꝛ p̊ de gnōne plꝛibꝰ in locis hʒ:ſʒ mapie tex.cō.53.ꝛ 4ᵗ.vbi ſic ait.pᵐᵘᵐ igiť mouēs nihil ꝓhibet in motu q̄dē eſſe imobile.in q̄buſdā aūt eſt ꝛ neceſſe.vltᵐᵘᵐ aūt ſemꝑ mouere motū:in actione aūt,pᵐᵘᵐ q̄dē in paſſiᵇⁱˡᵉ.vltᵐᵘᵐ auteʒ ꝛ

ipſum

ip̄m patiēs:q̄cūq; aūt nō hñt eādē mā̄ꝫ faciūt ipaſſi^{lia} en/
tia.v̄.g.medica^{ta}:ipa.n.faciēs ſanitateꝫ nihil patit̄ a ſana/
to.cib^{9}aūt faciēs ipe patit̄ ē̄t:aut.n.ifridat̄ aut aliud:qd pa
tit̄ ſil̄ faciēs ⁊c̄.Idē ē̄t.t.cō.87.⁊ in 2° ē̄t li°multis in locis.
Eſt ⁊ vna alia expſſiſſima auc̄tas ꝓhi 4° de gña.aialiuꝫ.
ca.3°.que iudicio meo cauillationeꝫ nō patit̄:vbi ſic ait,cū
vt mot^{9} ſoluant̄ eſt ꝙ oē agēs patit̄ etiā a patiēte:vt qd̄ ſe/
cat hebetat̄ ab eo:qd̄ ſecat̄:qd̄ calefacit refrigerat̄ a cale/
ſcente:deniq; qd̄cūq; mouet excepto p̄ mutuo mouet̄ aliq̄
motu.v̄.g.qd̄ pellit pellit̄ q̄dāmō qd̄ p̄mit rep̄mit̄.Inter/
dū etiā ita fit:vt qd̄ agit magis patiat̄ q̄ꝫ agat ⁊ refrigeret̄
qd̄ calefacit ⁊c̄.Quā videas tu:q2 clariſſime ſonat ꝙ vera
reactio deẗ inter agēs ⁊ paſſuꝫ:ita vt nullā patiat̄ cauilla/
tionē:multe etiaꝫ alie auc̄tes hincinde p̄nt ex varijs locis
Ariſt.⁊ antiq̄rū auctoꝝ:vt Auer.Them.Alex.⁊ medicoꝝ
afferri. Nos tñ his volum^{9} eē ɔtēti:clariſſime.n.declarāt
ɔ̄nem Calcul̄.nō conuenire dictis Ariſt.in hac re.

R°Cal. ¶ Calcu^{latori} tñ ⁊ ei^{9}ſeq̄ces vidētes auc̄tes ita manifeſtas,co
nati ſunt dare varias expōnes vt diffi^{cultatem} effugiāt:duas igr̄
dant expōnes ad v̄ba Ari.p̄^{ma} dat Calcul̄.in h̄ trac.vbi di
cit.ꝙ v̄ba Ari.in 3° phyſi.⁊ 2° de gña.ſunt ſane itelligēda:
nō.n.p ea voluit ꝙ oē agēs ſil̄ etiā pateret̄ actu ab ipo pa/
tiēte dū agit:ſꝫ h̄ itelli^{gendum} eſt in po^{a} vl̄ aptitu^{dine}:vt ſit ſenſuꝫ,
ꝙ om̄e agēs cōicās in mā̄ cū paſſo,q̄ntū eſt de ſe pōt pati.
nō q̄dē dū agit:ſꝫ alio t̄pe vel ab ipo patiēte vel ab altero
eiuſdē ſpēi.Silr̄ qñ dr̄ ꝙ omne agēs in agēdo repatit̄ itel
ligendū eſt ꝙ eſt aptū natū repati ab aliq̄ agente ɔ̄rio:nō
aūt ꝙ ſil̄ agat in aliq̄d ⁊ ab eodem patiat̄:q2 h̄ videt̄ im/
poſſibile:vt declarauerūt arg^{ta} facta in oppoſitum.

R°Iac. Forli. ¶ Iacobus aūt Forli.volēs ſaluare has auc̄tes dixit nihil
aliud voluiſſe Ari.p repaſſionē ſeu reactiōeꝫ niſi reſi^{ſtentiam} ip̄i^{9}
paſſi ad agens:⁊ eo mō v̄itateꝫ hñt oēs ille auc̄tes Ariſt.

¶ Sigs tñ recte ɔſiderauerit ſigillatim v̄ba Ariſt.videbit
neq̄q̄ꝫ illis aliq̄ꝫ iſtaꝝ expōnū ɔſonare.p̄.n.ſunt ɔ̄ℓe Cō^{ti}.
⁊ oib^{9} tā grecis q̄ꝫ latinis expoſito^{ribus} antiq̄s:oēs.n.vno ore
exponūt v̄ba Ari.de vera ⁊ poſi^{tiva} reactione:in cō^{to}.n.8.ter
tij phy.ait Com.qm̄ cib^{9} eſt agens in corp^{9} ſm̄ ꝙ eſt actu
panis ⁊ patiēs ab ipo ſm̄ ꝙ eſt corp^{9} in po^{a}.neceſſe eſt igr̄
vt ſint hic aliq̄ que mouēt ſe ab inuicē ⁊ mouent̄ ab inuicē:
⁊ ꝙ hec duo ſint vera.ſ.agē ⁊ pati ſil̄.ſilr̄ in cō^{to}.16.dicit.ſꝫ
q2 nō agit niſi p ɔtactū cū ſit corp^{9}:ideo ɔtigit ei neċio mo
ueri ab eo qd̄ mouet.ſilr̄ in p̄ de gña.cō.53.dicit ꝙ ſi agēs
nō cōicat in mā̄ cū paſſo nō patit̄ ab eo eodē mō ſm̄ quē
agit ꝙ ſi cōicat in mā̄:neċe eſt vt patiat̄.h̄ idē a Them.3°
phy.expſſiuis videri licet.Sꝫ deide ē̄t hec expō Calcu.nō
q̄drat v̄bis Ari.nō ſolū.n.Ari.cōparat in cō.8.3^{i} phy.agēꝫ
paſſo ſm̄ apti^{tudinem} vel po^{am} ſꝫ etiā ſm̄ actū:dicit.n.oē.n.eſt ſil̄
actiuū ⁊ paſſiuū.ſubdit deide.ḡ ⁊ mouēs phyſice mobile
eſt:deide v̄o addit:oē.n.hō mouet cū mouet̄ ⁊ ip̄m:ecce q̄ꝫ
clare v̄ba Ari.ſonat ꝙ nō ſolū agens eſt aptū natū pati:ſꝫ
ꝙ actu ē̄t dū agit patit̄.v̄ba ē̄t ipi^{9} p̄ de gnōne ⁊ corrup^{e}.⁊
4° de gña.aialiū.adeo clara ſunt vt fatuū ſit in eis imora/
ri:vult.n.4° de gña.ꝙ ex reactiōe patiētis ad agēs debili/
tat̄ v̄i^{9}agentis,vt nō poſſit pficere aſſilare paſſuꝫ:imo ſub/
iūgit ꝙ aliqñ multo maior eſt reactio patiētis q̄ꝫ ſit actio
agentis.dicit.n.ꝙ aliqñ calefaciēs magis refrigerat̄ ab eo
qd̄ calefit q̄ꝫ calefaciat:⁊ aliqñ econtra:qd̄ q̄deꝫ ſaluari nō
pōt ſi exponamus,ꝙ agens repatit̄.i.pōt pati:non autem
actu patit̄:neq; etiam ſi exponamus repatit̄.i.habet reſi/
ſtentiaꝫ.Et hec ſatis ſint quātum ad auc̄tes.

¶ Multe etiā rōnes pñt adduci ɔ̄ hanc opiōnē:nos tñ tm̄
tres afferem^{9}que maxie innitunt̄ nālib^{9} pn^{ijs}.ꝓ̄ria rō erit
hec:manife^{ſtum} eſt ꝙ inter ipa elmta ſm̄ eas ptes qb^{9} ſe tāgūt
ſphere eltoꝝ,ſemp eſt ɔti^{nua} actio ⁊ paſſio:vt pōt ex Ari.hñi
multis in locis: vnde dici ſolet ꝙ elta nō ſunt ſincera ſm̄
eas ptes qbus ſe tāgūt:ſemp.n.applicatis inter ſe actiuo ⁊
paſſiuo:ſequit̄ actio ⁊ paſſio.h̄ igit̄ ſuppoſito accipio duo
elmta imediata:puta terrā ⁊ aquā,ſemp neċium eſt vt iter
ipa ſit actio ⁊ paſſio.q̄ro igit̄ an ita ſe habeāt ꝙ vnū ipoꝝ
tm̄ agat:alterū v̄o tm̄ patiat̄:aut vtrūq; ſimul ⁊ agat ⁊ pa
tiat̄ ab altero:nō vr̄ rōnabile q̄deꝫ ꝙ alterū tm̄ agat ⁊ al/
terū tm̄ patiat̄:p̄ q2 ɔtra h̄ videt̄ experientia:videmus.n.ꝙ
vbi ſe elmta ɔtāgūt vtraq; ſunt alterata ⁊ ipura:vt pꝫ.vbi
eiꝫ terra tāgit aquā vel aereꝫ.Manife^{ſtum} eſt ꝙ nō eſt in ſua
nāli diſpōne:neq; terra:neq; aqua,vt pōt facile videri:et
oēs ɔcedūt. Si igit̄ vtrūq; eſt ipuruꝫ ⁊ alteratū.⁊ h̄ pue/
nit ex eoꝝ actiōe ꝓpter ɔ̄rietatem que in ipis eſt:ſeq̄t̄ ꝙ
vtrūq; in alteruꝫ agit. Huic etiā ratio ɔſonat:ſi.n.vnū tm̄
ageret ⁊ alteꝝ tm̄ pateret̄ deſtrueret̄ ꝓportio eltoꝝ.ſemp
eiꝫ excreſceret illud qd̄ agit ⁊ diminueret̄ qd̄ tm̄ patit̄:vt
ex ſe clarū eē videt̄.ſeq̄t̄ ḡ ꝙ vtrūq; agit in alterū:⁊ ab eo
etiā patit̄.ſi aūt ita ſit,vlteri^{9} quero:nūq̄d talia elmta ſe cō/
tāgentia iter ſe agāt ⁊ repatiant̄ ſm̄ eaſdeꝫ qualitates:vel
ſm̄ diuerſas.nō pōt dici ſm̄ diuerſas,vtputa ꝙ aqua per
friditatē agat:per ſiccitatē aūt patiat̄:q2 oīs actio eſt rōne/
ɔ̄rietatis:vñ per friditateꝫ nō pōt eē iter ipſa actio:hñt.n.
aqua ⁊ terra ſymbolū in frigi^{ditate}.ſeq̄t̄ ḡ ꝙ inter ipa ſit actio
⁊ paſſio tm̄ rōne ſiccitatis ⁊ humi^{ditatis} in qb^{9} ɔ̄riant̄:q̄re non
eſt ipoſe idē ſm̄ eaſdē q̄li^{tates} ⁊ eādeꝫ ɔ̄rietatē ſil̄ agere ⁊ pa
ti ab eodē ꝙ itēdebam^{9} pbare ɔ̄ Calcul̄. Hec igr̄ ſit p̄^{a} rō.

¶ Scđa aūt ratio ɔtra hāc Calcu^{latoris} opiōneꝫ,accepta eſt ab
ipa mixtione ⁊ cōplōne.ſi.n.negauerimus taleꝫ reactionē
que fit ſm̄ eaſdem q̄litates,neceſſe eſt negare cōplōneꝫ,⁊
verā mixtionis rōneꝫ:qd̄ quātū ſit abſurdū nemo eſt qui
ignoret.Et aūt h̄ ſequat̄ facile eſt videre,ſiq̄s recte ꝑpen/
dat v̄ba Ari.p̄ de gnōne.tex.cō.89.⁊.90.⁊ 2° de gnōne.tex.
cō.48.nō.n.fit vera mixtio niſi oīa elmta talr̄ iter ſe agāt
⁊ mutuo patiātur vt ad q̄dā mediuꝫ reducātur qd̄ actu
nō eſt aliqd̄ ipſoꝝ:ad mixtionem igit̄ neċia eſt actio ⁊ re/
actio ſi debēt talr̄ alterari miſcibilia vt ad mediū reducā
tur:qñ aūt vnū elmtuꝫ tm̄ agit: alterū v̄o patit̄ nō fit mix/
tio:vt dicit Ari.locis citatis:ſꝫ ſimplex vni^{9} gñatio,⁊ alte/
rius corruptio.Idē etiā de cōplōne eſt dōm:vt a medicis
eiꝫ habet̄:⁊ maxime ab Auic̄.p̄^{a} p̄mi.ca.de cōplōnib^{9}.cō/
plexio fit ex actione ⁊ paſſione adinuiceꝫ ɔ̄riaꝝ qualitatū
elementoꝝ: vnde niſi ſit mutua actio ⁊ paſſio inter p̄mas
qualitates nunq̄ꝫ fiet complexio.

¶ Ad rōneꝫ hāc lꝫ Calcul̄.nihil ipe riſiderit:multi tñ ex po
ſteriorib^{9} eius opiōnē defendē volētes ⁊ ipius efficaciā cō
ſpicientes conati ſunt riſidere:⁊ iter alios Iacob^{9} Forliuiē
ſis ⁊ clariſſimus etiā iter oēs Theologie pfeſſores qui nr̄a
floruerint etate magiſter Franc̄.neritonēſis ordīs p̄di^{catorum}.

¶ Iacob^{9} igit̄ duas dedit riſiones.In p̄^{a} q̄deꝫ ɔcedit mix/ R°Iac.
tioneꝫ verā in his iferiorib^{9} q̄tidie fieri:ɔcedit etiā neċiuꝫ
eſſe in mixtione remitti v̄tutes ⁊ q̄litates elmtoꝝ,adeo vt
ad mediū q̄dāmodo reducātur:nō tñ ex h̄ dicit neċiuꝫ eē
vt ɔcedat̄ reactio,ita vt ſimul aliq̄d in aliud agat ⁊ ab eo/
deꝫ ſm̄ eādē ptē patiat̄:vult.n.ꝙ ſi in mixtione.v̄.g.ignis
in aquā agat ⁊ ipam alteret nō ampli^{9} poſſit eodeꝫ t̄pe ab
aqua pati ꝓp incōueniētia adducta in pn^{o} q̄ōnis:ſꝫ dicit ꝙ
aque.friditas q̄deꝫ remittit̄ ab igne:ignis v̄o caliditas nō
ab aqua,ſꝫ a celeſti iſluētia que ipa elmta ad mixtionē di/
rigit:⁊ ſic vitātur incōueniētia hincinde ſequētia.

¶ Hec riſio mihi nullo modo videt̄ poſſe ſtare maxie in
via Ariſ.⁊ Cōmē.etiā:p̄ q̄deꝫ q2 ex ipa ſeq̄t̄ celū poſſe fri/
giditateꝫ ꝓducē,qd̄ eſt ɔtra Auer.maxime 2° celi cō.42.
ſed his oib^{9} dimiſſis.deide hec riſio eſt ex toto aliena ab
Ari.⁊ v̄bis eius p̄ de gñatiōe.tex.cō.87.8^{i}.⁊ 9^{i}.vſq; in finē
clamātis per totū:ea tm̄ miſcibilia que mutuo agūt ⁊ pa/
tiūtur.ea aūt que nō agūt mutuo ⁊ patiunt̄ ab inuiceꝫ vel

difficile patiunt̃ nõ ꝓpe dicunt̃ miſcibilia: ſʒ ea tñ q̃ ſunt abinuicẽ paſſiua: vbi expꝛeſſe vult ꝙ ſit mutua actio ⁊ paſſio iter elẽta ad mixtionẽ deuenientia. nõ aũt ꝙ q̃dã ipoꝝ ab iſluẽtia remittant̃. vñ dicit Ari. fieri mixtionẽ qñ adeq̃ntur poĩa ꝙ exponẽs Cõmẽ. ait. Mixtio aũt ↄtingit qñ equalr patiũtur ⁊ agũt. Cuius cã eſt: q2 tũc equalr trãſmutat̃ vtrũq3 ex qua trãſmutatõe neutrũ in alterũ: ſʒ ambo in mediũ q̃dã illis cõe. nõ g̃ eſt iſluẽtia remittẽs elẽta: ſʒ ipoꝝ mutua actio. ⁊ ideo dicit ipa miſcibilia oportere vt ſint ↄria vt adinuicẽ ſint paſſiua. Et ꝙ hec ſit Phi itẽtio appet 2° de gña. tex. cõ. 48. vbi de mixtione loquens ait: q2 que miſcent̃ corrũpũt itẽtiones abinuicẽ: nõ dicit ꝙ celũ vel iſluẽtia ipa remittat: ſʒ ꝙ ipa adinuicẽ corrũpũt itẽtiones ſiue excellẽtias ↄrietatis: ⁊ hui9 cãm iferi9 reddẽs, q̃uo pñt inuicẽ ↄria mutuo agere ⁊ pati ait: q2 actu frigm̃ eſt po. calidũ ⁊ actu calm̃ eſt po. frigm̃: ⁊ ideo qñ equãtur in virtute mutuo agũt ⁊ patiunt̃: quãdo vo nõ equãtur ita vt mutuo agãt nõ amplius fit mixtio: ſʒ vnũ in alterum trãſmutat̃. ecce luce clari9 hec rñſio Jac. repugnat itẽtiõi ⁊ vbis Phi.

¶ Scda etiam rñſio eius: q2 ponit alia eẽ elẽta que agũt, ⁊ alia que patiũtur nõ minus repugnat vbis Ariſt. q̃ȝ p°. penultimo. n. cõ°: ⁊ tex. pͥmi de gñatione ait: ꝙ qñ alteꝝ ſolũ paſſiuũ erit, aut vehemẽter: alteꝝ vo parũ aut nihil ex ipſis verã nõ fieri mixtiõe ſic ipe declat exẽplo ſtãni ⁊ eris.

Ro. Frã. Nerito. ¶ Aliter aũt conat9 eſt rñdere magiſter Frã. neritonẽſis et ipe in hac re inſecut9 viã Calcul. qui ex vna pte vidẽs difficultatẽ ſaluãdi verã mixtionẽ, ſi reactionẽ negauerim9, ex alia vo multa incõuenientia ſeq ſi ipam ↄceſſerimus: vt oẽs has anguſtias euitaret ꝑtim ↄceſſit reactionẽ: ꝑtim negauit. per accñs q̃dẽ ↄceſſit: per ſe vo negauit. qđ h modo declarat̃ ↄcurrẽtib9. vbi. g. igne ⁊ aqua ad mixtionẽ ſi ignis agit in aquã per calitatem. per ſe q̃dẽ corrũpit aque frigiditatẽ: aqua tũc nõ põt per frigitatẽ agere in ignẽ per ſe. ⁊ h ꝓꝑ rõnes ſupius adductas: vñ ſi aqua reagit in ignẽ, ꝑ humiditatẽ reagit: ⁊ in tali reactione, per ſe q̃dẽ remittat ſeu corrũpit ignis ſiccitatem, ad corruptiõẽ aũt ſiccitatis ignis per viã ſequele, ex q̃dã affinitate ⁊ ex q̃dã ordine quẽ hñt iter ſe ille due q̃litates in igne remittit̃ etiã vel corrũpit̃ caliditas. ſilr ad remiſſionẽ frigiditatis aque remittit̃ ei9 hũiditas. ⁊ ſic ↄcedit iter elẽta ſm eãdẽ ↄrietatẽ actionẽ ⁊ reactionẽ per accñs tñ: ⁊ per viã ſeq̃le: nõ aũt per ſe. ⁊ h modo ex elẽtis ad mediũ reductis mixtũ gñat̃ ⁊ hac via credidit poſſe ſolui oẽs difficultates vtrinq3 occurrẽtes: ⁊ hãc dicebat (vt reuelerũt ei9 diſcipli) fuiſſe diui Tho. opionẽ.

¶ Cʒ aũt hic vir habit9 ſit omni veneratione dignus: mihi tñ hec eius rñſio neq3 veritati ↄſona videt̃: neq3 mẽti Ariſt. vel eius vbis. ꝑ q̃dẽ q2 ex ipa ſeq̃t̃ talẽ reactionẽ repiri ſolũ iter ea elẽta que ſm duas ↄrietates opponũtur. inter ea aũt que ſymbolũ hñt nulla poſſet cadere reactio cũ inter ipa nõ cadat actio niſi ſm vnã tñ ↄrietatẽ: h aũt videtur abſurdũ ⁊ expꝛeſſe ↄtra Ari. voluit eĩ Ari. p° de gña. ⁊ 2°. locis ſepius citatis h eſſe ꝓpꝛiũ oĩum actiuoꝝ ⁊ paſſiuoꝝ que cõicãt in mã vt inuicẽ agãt ⁊ patiãtur: ⁊ iter ipa poſſit cadere reactionẽ. nã in. 87. tex. p° de gñatiõe. ſic ait Phs. hec q̃dẽ igit̃ ↄuertũtur quoꝝ eadẽ eſt mã ⁊ actiua adinuicẽ ⁊ paſſiua adinuicẽ. Jdẽ 2° lib° eiuſdẽ: lʒ colligere loco ſepius adducto. 3° etiã phyſi. vult omne agẽs per ↄtactũ ſimul pati dũ agit. Cõtra hãc et rñſionẽ directe eſt p° ratio quã adduximus ↄtra Calculatorem de actione elẽtoꝝ imediatoꝝ.

¶ P. Ego velim ſcire nunq̃d ſemꝑ h ſit neceſſariũ qđ ipe dicit: vt. ſ. ad remiſſionẽ vnius q̃litatis in elẽto per viã ſequele remittat̃ ⁊ altera, vel nõ: ſed tñ h aliqñ accidat, vtputa in mixtione. ſi dicãt hoc nõ eẽ neceſſariũ, ſed tñ aliqñ fieri: h nõ videt̃ rõnabile: que eſt. n. ratio cur aliqñ fiat ⁊ aliquãdo nõ: nulla videt̃ poſſe aſſignari ratio, niſi velim9 recurrere ad influxus celeſtes, quẽadmodũ fecit Jacob9 Foli. de quo pauloante diximus. Si vo dixerit h eſſe neceſſariũ ⁊ ſemꝑ ↄtingere: tũc videt̃ ſeq ex hoc ꝙ nõ poſſit terra calefieri qn̄ et fiat humidioꝛ: qđ videt̃ abſurdũ: ꝙ et nõ poſſet vnũ elẽtũ alterari ſm vnã q̃litatẽ remanẽte altera in ſua itẽſione: ſeq̃t̃ etiã ꝙ ſi aer agat in aquã vt ipam aſſimilet quãto magis aget, tãto aqua redderet̃ ſiccioꝛ, qđ videt̃ inopinabile: cũ. n. aer ſit ꝑ humidus vt ex eius actione potius debeat itẽdi humiditas aque, q̃ȝ remitti: ⁊ itẽdi ſiccitas. Q2 aũt h ſequat̃ manifeſtũ eſt: aer. n. agẽs in aquã ꝑ corrũpit fridiatẽ aque ⁊ cũ ad corruptiões fridiatis in aqua ſit neceſſariũ via ſeq̃le corrũpi et ei9 humiditatẽ, vel remitti: quãtũ aũt in aliq̃ ſubito iuxta cõem viã remittit̃. vel corrũpit̃ humiditas, tãtũdẽ intẽdit̃ vel gñat̃ ſiccitas: ſeq̃t̃ ꝑterea ꝙ q̃ntũ ex vna pte diſponit̃ aq̃ ad gñationẽ aeris tñ, ex altera redditur magis indiſpoſita: q2 fit ↄtĩ9 minus hũida ⁊ magis ſicca: ſiccitas aũt repugnat gñationi aeris: ⁊ ſic nunq̃ȝ poſſet ex aqua gñari aer: ⁊ multa alia abſurda pñt deduci ex hac opione que dimittimus cã breuitatis.

¶ Q2 etiã ſm Ari. nõ ſolũ ſit ponẽda reactio per accñs: ſed etiã per ſe põt luce clarius haberi: tũ ex ei9 vbis in varijs locis iam citatis: tũ ex cã quã ipe aſſignat, cur pñt ↄria mutuo ⁊ inuicẽ agere ⁊ pati ꝑtim 3° phyſi. ꝑtim 2° de gñatiõe tex. cõ. 48. dicit. n. ꝙ ideo pñt inuicẽ agere ſimul ⁊ pati ↄria, vtputa calidũ ⁊ frigm̃: q2 qđ eſt actu calidũ eſt po° frigm̃: ⁊ qđ eſt actu frigm̃ eſt po° calidũ. Manifeſtũ aũt eſt ꝙ hec ratio nõ eſt ratio agẽdi per accñs, ſʒ per ſe: agẽs. n. ꝑ ſe facit actu tale qđ eſt po° tale: nõ aũt per accñs. ¶ Jllud etiã argm̃ de parte repaſſa quo ↄceſſa reactiõe deducebat̃, ad h ꝙ idẽ duob9 motib9 ↄrijs moueret̃ calefieret ⁊ ifridatẽt angeret hãc opionẽ: tã. n. ꝑ ſe q̃ȝ ꝑ accñs h eſt ipoſſe ⁊c.

¶ Q2 etiã dicit hãc fuiſſe mẽtẽ. d. Tho. credo ſalua eius reuerẽtia eẽ falſum: nunq̃ȝ. n. ab eo hoc dictũ inueni: imo ei9 vba ex toto ſonãt oppoſitũ in h 3° phyſi. ⁊ in li° de gñatione. Hec igit̃ ſatis ſint q̃ntũ ad 2am rõnẽ ↄtra Calcul. ⁊ eos qui eius opinionẽ in hac materia ſunt inſecuti.

¶ Tertia aũt ratio ↄtra ipm põt deduci ex his que q̃tidie fiũt in aĩalib9: ſublata. n. reactione nõ videt̃ q̃uo in aĩalib9 hñtib9 pulmonẽ ſit neceſſaria iſpiratio, ⁊ expiratio, ad ↄſeruationẽ vite ipoꝝ, vt experiẽtia clara eſt: ⁊ tradit̃ ab Ari. in libello de iſpiratione ⁊ reſpiratiõe: ꝙ aũt ex iſpiratiõe ⁊ reſpiratione manifeſte poſſit ↄcludi vera reactio facile declarari põt ſi velimus cãm iſpicere ꝓꝑ quã Ari. ⁊ medici oẽs dicũt ꝑ neceſſariã iſpirationẽ: ⁊ deide expirationẽ: ꝓꝑ hoc eĩ neceſſaria eſt iſpiratio vt calor itrinſecus aĩalis maxime in corde refrigeret̃ ⁊ tẽperet̃ aliquãtulũ ne ſupra modũ excreſcat ⁊ per marcorem itereat aĩal: vt ait Ari. refrigerat̃ aũt per attractionẽ frigidi aeris. neceſſaria vo eſt expiratio: q2 aer attract9 in pulmonẽ ⁊ coꝛ ibi ſupcalefit: ⁊ reddit̃ inaptus ad refrigeriũ caloris: ⁊ ideo neceſſariũ eſt ipſum expelli: vt ei alius frigidioꝛ poſſit per iſpirationẽ ſuccedere. Ecce manifeſta reactio aer attract9 ad coꝛ ipius caloꝛẽ refrigerat et ↄtẽperat: ⁊ ab eo etiã calefit. nec poſſumus fugere hic ad diuerſitatẽ partiũ aeris vel cordis hic ſicut faciũt ſeq̃ces Calculatoris volẽtes multa experimẽta ſaluare que videntur arguere reactionẽ: nã illemet ptes que refrigerãt cordis calorẽ eedẽ ab eo calefiũt: niſi. n. ille ptes frigide calefierẽt nõ fierẽt inapte refrigerio cordis: et nec poſtea neceſſariũ eſſet vt ſuccederet expiratio: vt de ſe manifeſtũ eſt. Hec igit̃ inter alia multa que pñt ↄtra hãc opionẽ adduci nobis ſufficiãt ꝓpter que credimus Calculatoris opionẽ rõni ⁊ ſenſui oĩno repugnare: ⁊ pñcipijs totius philoſophie.

Relicto itaq3 Calculatore ad alioꝝ opiones trãſeamus. fuerunt igit̃ alij multi qui ↄtrariã viã ſunt inſecuti: ⁊ ↄceſſerũt reactionem nõ ſolũ

ſm q̃litates

ſm qualitates diuerſoꝝ generuꝫ ⁊ ꝯtrarietatuꝫ: vt Calculator in ſua pͣ ꝯcluſione: ſed etiā ſm qualitates eiuſdē cōtrarietatis: ita ꝙ ſi vnū per caliditatē in alteꝝ agat ab eo per frigiditatē pati poſſit: ⁊ hoc nō ſolū virtutem hec voluerūt in his que hñt ptes difformes: vt Calculator. ſed in his etiā que ſunt vniformia in oībus ptibus: ⁊ nō ſolū qñ agēs ⁊ patiēs ſunt eque potentie: ſꝫ etiā qñ vnū eſt altero potētius. ⁊ hāc ꝯnē conati ſunt multi defendere ⁊ cōprobare / qui lꝫ in ꝯne cōuenerint multū tñ in fundamētis qbus conātur ſuſtinere et defendē hāc ꝯnem ſunt diſcordes: imo ꝯrij. Ex vna.n. pte

Marſilius inguen: Alb. de Saxonia: Paulus Vene. ſuper li° de gñatione ⁊ corrup. Iac. Forl. in trac. ſuo de itēſione ⁊ remiſſione. in 2ª pte. Hactanus in trac. ſuo de hac mā. ⁊ in recollectis ſuis ſup 3° phyſic. ꝯueniūt nō ſolū in ꝯnibus in hac mā: ſed etiā in fundamētis. Fundamētū.n. cui innitunē iſti, eſt hoc ex toto Calculatori oppoſitum. ſ. ꝙ qualitates pͥe elmtorꝫ nō eādē hñt rōnez in actiuitate ⁊ reſiſtētia / imo oppoſitā: qꝛ. ſ. vnaqueqꝫ qualitas quāto eſt actiuior / hoc eſt potentior in agēdo / tāto eſt minoris reſiſtētie: ⁊ quāto minus actiua tāto magis reſiſtiua agēti volēti ipſam corrūpe. vñ dicūt caliditatē eē maxime actiuā minime reſiſtiuā: poſt calitatē eſt frigiditas: deinde humiditas. minime vero actiua eſt ſiccitas / ⁊ maxime reſiſtiua. Hoc aūt rōnabiliter factū eſt vt poſſit debita ꝓportio ⁊ iuſtitia ſeruari in his gñabilibus ⁊ corruptibilibus. Hoc itaqꝫ ſuppoſito facile eſt vidē vitatē ꝯnis. p g. dē q̄ntū ad ꝯria eque potentia: ſuppono ꝙ ſint duo corpa q̄rū alterū ſit calidū vt octo: ⁊ voceṫ. a. alterū vero frigidū vt octo: ⁊ voceṫ. b. que ſint per totū vniformia / ⁊ eq̄lia in po°cū vtrūqꝫ ipſoꝝ ſit magis actiuū q̄ʒ reſiſtiuū: po° g° vtriuſqꝫ actiua ſupat reſiſtentiam alterius. cuꝫ aūt mot⁹ ꝓueniat a ꝓpor° maioris ineq̄litatis po° agētis ſupra reſiſtentiam paſſi poterit vtrūqꝫ in alterū agere. ꝙ ſi ponam⁹ alterū. v.g. a eſſe po° actiue vt octo reſiſtiue vt 4ᵒʳ. alteꝝ vero reputa. b. po° actiue vt ſex reſiſtiue vt 4ᵒʳ agētia erūt non eque potentia: vtrūqꝫ tñ poterit in alterū agē: cuꝫ vtrūqꝫ ſupet reſiſtentiam alteri⁹ diffuſe ⁊ clare hec oīa declarātur ab ipſis / ⁊ maxime Hact. in ſuo trac. a qbus facile pñt videri: clare enim ponūtur. idem etiam facilius declarātur. de difformibus ⁊c̄.

¶ Lꝫ aūt vere videātur ꝯnes circa tamē fundamētū quo hi innitūtur multa difficultas vndiqꝫ emergit de qua: quia de reſiſtentia poſterius ſumus locuturi ad illū locuꝫ dimittem⁹ ⁊ ad Ventiſberi pōnem trāſibimus ⁊ eius fundamēta.

Ventiſber Ventiſber g° ex altera pte: lꝫ magna ex parte in cōcluſionibus cuꝫ pͥoribus ꝯſentiat: tamē in fundamētis qbus vitatē ꝯnum oſtēdit eſt ex toto diuerſus. ipſe.n. tenet cuꝫ Calculatore vnūqdqꝫ tātū eē reſiſtiuum quātū eſt actiuū: ⁊ ideo alia via conatus eſt ſuſtinere vitatē ꝯcluſionū pcedētiuꝫ. Dicit g° Vent. in vlᵒ ſuo ſophiſmate. ꝙ ſi ſint a. ⁊. b. eque potentia: ⁊ totū. a. agat in. b. ſicut ſunt equalia in agēdo: ita etiā in reſiſtēdo ſunt equalia quātū ad eoꝝ vniuerſam reſiſtentiam: vnde merito ꝓportionis toti⁹ ad totū alterū nō pōt in alterū agere: ga tñ pars. b. inexiſtēs etiā ipſi. b. non pōt tātum reſiſtē quātū ipm. b. totū: ideo lꝫ. a. nō poſſit in totū b. agere pōt tamē in ptē. b. ⁊ ecōtra. b. in partē. a. vnde reactionē Ventiſ. ꝯcedit merito ꝓportionis toti⁹ ad partē. nō ſolū aūt inter agētia eque potentia voluit poſſe ꝓbari reactionē: ſed etiā inequē potentia. ſi enim ponaṫ ꝙ. a. calidū in duplo ſit potētius. b. frigido: cū tamē. a. ſit in infinitū diuiſibile in. a. erit aliqua pars ita parua qꝺ erit minoris reſiſtētie q̄ʒ ſit potētia totius. b. in quam poterit. b. agere: eodē modo poteſt de difformibus declarari.

Contra Vent. ¶ Huius viri fundamētū ſalua eius reuerētia dixerim mihi nō videṫ ſatis rōnabile nec pͥncipijs Ari. ꝯſonuꝫ: nō.n. video que debeat ratio aſſignari: quare totuꝫ. a. agat in. b. totū vero nō reſiſtat ipſi. b. in ipm reagēti: q̄ſi agēs aliqꝺ natule debeat intēdē maiori conatu aliud corrūpere q̄ʒ ſeipm cuſtodire / ⁊ ꝯſeruare ne ab alio corrūpaṫ ita ꝙ alteri reſiſtat niſi ſm partē ne ab eo corrūpaṫ: totū vero agat ⁊ alterius corruptionē ingrat: qꝺ mihi nō videṫ ſatis rōni ꝯſonuꝫ. viſibile.n. videṫ hoc / ꝙ pͥus: ⁊ magis debeat aliqs querere ꝯſeruare ꝓpriam nāᵐ: ⁊ eē / q̄ʒ aliqd aliud corrūpere ⁊ ſibi aſſilare: cuꝫ eē ſit ab oībus maxime appetibile: ⁊ vnūqdqꝫ maxime deſideret vt cōſeruet ꝓprium eē: vt eſt ſnīa Ariſt. 2° de aīa. tex. cōmē. 34. ⁊ multis in locis.

¶ P. Ego ab eo vellem ſcire nunqd cum. a. agit in. b. actio ipſius. a. termineṫ ad totuꝫ. b. vel tñ ad aliquā eius ptē: ad alias aūt nō ꝓueniat actio ipſius. a. ſiqdeꝫ dicaṫ ꝙ actio. a. terminaṫ ad totū. b. mihi videṫ neceſſariuꝫ eē vt fateaṫ etiā totuꝫ. b. reſiſtē ipſi: nō.n. videṫ ratio cur vna pars reſiſtat / altera vero nō: ⁊ ſi totū. b. alteraṫ ab. a. cur ē totuꝫ nō reſiſtat.

¶ P. Si totū alteraretur / totū vero nō reſiſteret ſed tñ aliq̄ eius pars / alia vero nō: ſeq̄reṫ ꝙ aliq̄ pars ipſius. b. moueretur in inſtāti / aut ſaltē iſinite velociter: qꝛ velocitas mot⁹ attēdiṫ penes ꝓportionem agētis ad reſiſtentiam. cuꝫ g° agēs habeat actiuam potentiam determinatā: paſſum vero nullā habeat reſiſtentiam quātū. ſ. ad eā partē. ſ. que alteraṫ ⁊ nō reſiſtit. entis aūt ad nō ens eſt ꝓportio iſinita vel magis nulla: q̄re ſequiṫ qꝺ intēdimus. Si aūt dicat ꝙ actio. a. nō terminaṫ ad totū. b. ſꝫ ad ptē tñ ipſius. b. ita ꝙ tñ vna pars ipſius. b. altereṫ ab. a. nō aūt totū. b. tunc nō video quō poſſit ſaluare verū rationē mixtionis: qꝛ vt eſt ſnīa Ari. pͦ ⁊ 2° de gñatiōe locis ſepius citatis miſcibilia opꝫ vt ſint refracta: ⁊ ad mediū quodāmodo reducta / ita vt neqꝫ ſimplr habeāt eē actiue: neqꝫ ſimpliciter potentia. Si aūt agēs nō repateretur ab ipo paſſo ſm totū: ſꝫ tātū q̄tuꝫ ad eius ptē aliquā, pars nō repaſſa hīet eē ſimplr actu tale. ſ. calidū vel frigidum: ⁊ non refractum: ⁊ ſic ex ipſis miſcibilibus nō poſſet fieri vnū 3ᵐ diſtinctum ab vtroqꝫ illoꝝ in quo vtus vtriuſqꝫ frangereṫ: vt licet clare vidē apud Ari. locis ſupius citatis. ¶ Ad hāc difficultatem poterūt forſitan ridere / actionē ipſius. a. terminari ad totū. b. accipiēdo totuꝫ ſyncathegorematice. nō aūt accipiēdo totū cathegorematice: ita ꝙ q̄libet pars ipſius. b. alteraṫ / nō ſimul tñ ſed ſucceſſiue per ptē poſt ptē in infinitū / nō aūt totū ſimul: ⁊ ſic videṫ euitari difficultas. ſic.n. ſemp eſt ꝓportio totius ad ptē ⁊ nulla pars remanet que nō repatiaṫ ⁊ altereṫ: vt clarum eſt ⁊c̄.

¶ Certis aūt hec riſio videaṫ fugere difficultates mihi tñ non ſatiſfacit ad plenū: ⁊ ratio que me mouet eſt hec: mihi etiā videṫ veriſile ſatis hoc / qꝺ q̄libet agēs / vel mouēs certe ⁊ determinate cuiuſdā vtutis / vel po° debeat hr̄e aliqꝺ mobile ſibi correſpondēs tāte q̄ntitatis determinate ⁊ talis cōditionis vt ab eo agēte vel motore totū poſſit pͦ ⁊ per ſe moueri vel pati ⁊ ſm eius ptes oēs: ⁊ hoc tā in motu locali q̄ʒ alterationis. hoc fundamētū mihi videṫ neceſſariuꝫ in via Ariſ. maxie ſm Cōmē. qꝺ ſi negauerimus vi ruere tota doctrina Ari. 5° phyſi. in pͥn°. ⁊ 7° etiā phyſi. in pͥn°. nā ex hoc ſeq̄reṫ: omne qꝺ moueṫ aut moueri per accidēs aut per ptes: nullū aūt eēt motū per ſe: qꝺ quātū repugnet Philoſopho / pōt facile videri 5° ⁊ 6° phyſi. fere per totuꝫ. Qꝛ aūt hoc ſequaṫ eſt manifeſtum ex diā quā aſſignat tex. cō. pͥmi. gnti phy. īter id qꝺ per ſe: ⁊ qꝺ per accidēs: ⁊ qꝺ ſm ptes moueṫ. illud.n. dī moueri per ſe qꝺ eſt pͥmum ⁊ adeq̄tū ſubim mot⁹: ⁊ nō ipſi attribuiṫ motus per alterā vel per ptes eius: ſi aūt nihil eſt qꝺ ſimul poſſit ſm oēs eius ptes trāſmutari / tūc omne qꝺ trāſmutaṫ diceṫ rōne aliq̄rū ptiū eius moueri nō aūt per ſe primo totū moueri dici poterit vt ex ſe clarū eē videṫ.

¶ Ad hoc forſitan ipſi dicēt ꝙ veruꝫ eſt ꝙ qñ mobile incipit moueri maxime motu alterationis: tūc nō moueṫ pͦ ſm totum. ſed tādeꝫ ꝓcedit mot⁹ per ptē poſt ptē donec totū altereṫ: ⁊ tūc totū dr̄ per ſe pͦ moueri / ⁊ nō ſm partē. ¶ Hec riſio adhuc mihi nō ſoluit oēꝫ ſcrupulū / nā ſeq̄reṫ ſaltim

hoc ꝙ a pn° mot° per aliqđ certū tps nullū mobile inci-
peret per ſe ꝓ moueri:ſed oē qđ incipit moueri motu ſaltē
altera^tiuo moueret per accidēs aut ſm ptes:nihil aūt per ſe
ꝓ:qđ videt abſurdū. ¶ Ꝓ. Tota ratio Ari. 7° phy. tex. cō.
2ª. qua ꝓbat omne qđ mouet ab alio moueri maxime ſi
Cōmē. ſequamur ibi fundat ſup hoc:q2 in ql'ibet motu eſt
reperire aliqđ qđ ꝓ ⁊ per ſe mouet:cui° ſi aliq̄ pars quieſcit
⁊ totū de neceſſitate quieſcit:dato aūt hoc pōne totū iſtud
falſuꝫ eſt:maxime in motu altera^tiuo:⁊ maxime in ꝓª parte
mot°. nihil. n. eſt qđ in ꝓª pte altera^tiōis poſſit per ſe ꝓ moue-
ri:cum omne qđ alterat in pn° ſaltim altera^tiōe per ptē alte-
rat ⁊ nō ꝓ ſm totuꝫ:q̄re necium videt ſuppo^m nrm in via
maxime Ari. ⁊ Cōmē. ſi igit tale fundamētuꝫ ꝯcedat ſta-
tim ruit fundamētū Dētiſ. nā pono ꝙ. a. ⁊. b. in caſu poſi-
to ſint duo corpa ꝯria tāte q̄titatis:⁊ talis etiā nāe vt qđli-
bet re^m alterius poſſit dici mobile ꝓ ⁊ per ſe vel aptū natū
moueri ꝓ ⁊ per ſe tūc quero, nūqd hec agēt ⁊ patient inui-
ceꝫ vel nō. nulla videt ratio, cur nō debeant agere, ſi ſint
ꝯria in eadē mā cōicātia, inuicem debite approximata:ſi
aūt agēt cuꝫ vnūqđqꝫ ipſoꝝ tātū ſit actiuū q̄tū reſiſtitiuū
⁊ ſunt eq̄lis po^e:tūc ab equali ꝓpor^e po^e ad reſi^as ꝓueniet
actio:qđ videt falſuꝫ:nec pōt recurrere ad ꝓpor^em po^e to-
tius, ad reſi^am ptis:cum. n. totuꝫ ſit illud qđ patit ⁊ mouet
ꝓ ⁊ per ſe totū etiā eſt illud qđ reſiſtit:quare ſi res reſtrin-
gat ex funda^to Dētiſ. nō videtur euitari diffi^cās moleſtā-
tes eos qui ponūt reactionē ſm eadē ꝯrietates.

¶ Ꝓ. 3° ⁊ vl'e° vnūqđqꝫ reſiſtēs reſiſtit ſm ꝙ eſt in actu:qđ
enim in po^a eſt ſm ꝙ eſt in po^a nō reſiſtit:tūc. n. mā ꝓª ma-
xime reſiſteret:qđ tñ falſuꝫ eſt:mā. n. ꝓª per ſe nulli reſiſtit
q2 eſt pura po^a, ſed totū ꝓpe dī eſſe in actu, ptes vō hīt ꝓ-
prie ee in po^a. ſ. ſm ꝙ ſunt in toto, nō autem in actu:vt ex
Ariſ. ⁊ Auer. multis in locis appet. reſi^a ḡ ꝓ ⁊ per ſe debet
toti:ptibus vō ſcđario ſm. ſ. ꝙ ſunt in toto:vnde ſicut totū
eſt illud qđ dī ꝓ moueri:ptes vō ſcđario ⁊ quaſi per accīs
inquātū. ſ. in eo toto ſunt:vt 6° phyſi. ita etiā totuꝫ eſt illud
qđ ꝓ ⁊ per ſe alterāti reſiſtit ptes vō ſcđario. ſi ḡ totuꝫ reſi-
ſtit ⁊ totū agit tāta erit reſi^a paſſi quāta vtus ⁊ po^a agētis
⁊ ſic nulla ꝓueniet actio:vel ſi ꝓueniet a ꝓportione equa-
litatis prouenit:qđ tamen falſum eſt.

Marlia- ni opinio.

Ultimo vō loco Joā. Marlianus, annis paruꝫ ante
actis vir per celebris, aliā eſt imaginat° opi-
nionē:in qua ptim cuꝫ Calcul. ꝯſentit ptim ei ꝯriꝰ eſt. te-
net. n. ipſe, ꝙ iter vniformia nullo° pōt eē actio ⁊ reactio,
ſiue tā agēs q̄ paſſum ſint eque po^a ſiue ſint nō eque po^a:
q2 voluit cum Calcul. vnūqđqꝫ, tātū eē actiuū, q̄tū reſiſti-
tiuū. Si vō agēs ⁊ paſſuꝫ nō fuerint vniformia ita ꝙ, vel
vtrūqꝫ ſit diſſorme:vel alterū vniforme, ⁊ alteruꝫ diſſor^e:
tūc credidit ipſe, ꝙ iter ea ſm extrema inuicē approximā-
ta, ſm eadē etiā ptes pōt eē poſitiua actio ⁊ reactio:⁊ in h
ꝯdixit Calcu^ti ſuo:nō tñ voluit h ſemꝑ ꝯtingē, vt quotiēſ-
cūqꝫ ꝯcurrāt aliqua ꝯria diſſormia, vel vnū diſſorme ⁊ al-
terū vnifor^e, ſtatim ſequat actio ⁊ reactio:ſꝫ voluit h ſolū
inueniri in qbuſdā certis caſib°:vt ipſe declarat, ſuppoſi-
tis tñ prius qbuſdā fundamētis, que lꝫ fere innumera ſint,
nos tñ ea tm̄ afferemus que magis vident necīa breuita-
ti ſtudētes. ¶ Primū funda^tū qđ ſupponit eſt hoc:nullū
agēs nāle per q̄litates ꝓ^as, qbus per ſe ⁊ ime^te ꝯiūgit, reſi-
ſtit actioni:quā ipm cuꝫ eiſdē q̄litatib° per ſe ⁊ ime^te ꝓdu-
cit, vel intēdit ꝓducere in mā exteriori. Hoc funda^tū nitit
ꝓbare per deductiōeꝫ ad ipoſſibile. Dato nāqꝫ eius oppo-
ſito. ꝓ videt ſeq hoc inconueniēs, ꝙ. a. vniforme in oībus,
nūc iuuat. b. ad reſiſtēduꝫ. c. ⁊ creſcēs in quātitate ⁊ po^a:⁊ ꝑ
manēs ꝯſilr qualificatum ꝯtinue minus ⁊ minus iuuabit
ad reſiſtēdū:⁊ aliqñ nō iuuabit:imo aliqñ ecōtra iuuabit
c. ad agēdū in. b. ceteris tñ oībus paribꝰ. Qđ aūt h ſequat

ipſe deducit, poſito caſu iſto ꝙ. a. ſit corpus pedale ꝑ totū
hñs vni^r cali^tē vt 4^or. ⁊ ſilr frigi^tē vt 4^or. c. vō ſit q̄drupe^le.
vnifor^r frig^m vt octo:⁊. b. ſit pedale calꝫ vt. 8. vnifor^r:qđ ſit
mediū iter. c. ⁊. a. tāgēs vtrūqꝫ:tūc mani^m eſt ꝙ. c. agit in. b.
⁊ fri^te ipſꝫ. tūc ḡ q̄ro nūqd. a. rōne cali^tis iuuabit. b. ad reſi^ēs
c. vł nō. ſi h ꝯcedat:tūc vlteri° ponat ꝙ ipi. a. addat aliud
corpus ipi penit° ꝯſilr q̄lificatū:ita vt. a. ꝓc^e rōne iſti° aug-
mēti in po^a creſcat donec poſſit agere in. b. ⁊ tūc ſeqt ꝙ. a.
ꝯti^e min° iuuabit. b. ad reſi^ēs:imo ipm aliqñ aget in. b. per
frigi^tē:⁊ ꝑ ꝯñs tūc nō iuuabit. b. ad reſiſtēdū. ¶ 2° ſeqt ēt
h icōueniēs ꝙ nullū tepidū agere pōt in aliqđ co, aut fri-
gidi°, aut calidi°:qđ ꝓbat ſic:q2 ſit. a. tepidū cētū pedū qđ
agat in. b. pedale hñs vnifor^r cali^tē vt. 7. ⁊ fri^tē vt vnū:tūc
ſi calitas que in tepido eſt reſiſteret ei° actioni nūq̄ illud
poterit agere in. b. q2 ex vna pte eſt calitas. a. que reſiſtit
vna cū cali^te. b. ⁊ frigi^tas. a. agit ⁊ adiuuat a frigi^te. b. cū aūt
calitas in tepido ſit eq̄lis po^e cū ei° frigi^te:vel fortaſſe ma-
ioris:⁊ calitas. b. ē maioris po^e q̄ ei° frig^tas magis poterit
reſiſtē calitas q̄ agere friditas. ⁊ ſic nō poterit. a. tepiduꝫ,
q̄tūcūqꝫ magnū agere in aliqđ calm, q̄tūcūqꝫ paruū per
frig^tē:que oīa videnť abſurda:⁊ his ſilia multa pñt addu-
ci:q̄re fūda^m vł vex. ¶ 2^m ei° fūda^m eſt ꝙ in corpe vnifor-
mi vna pars iuuat aliā ad agēduꝫ in ſuū ꝯriū ſm eā q̄li^tē
qua eſt vnifor^e. ſilr vna pars iuuat aliā ad reſiſtēdū cuiꝰ
ꝯrio qđ illā q̄litatē itēdit corrūpe. ¶ 3^m ſuppo^m ſeu funda-
mētū eſt h in corpib° diſſormib° nō q̄libet pars iuuat aliā
in agēdo, ſm eam q̄litatē ſm quā ſunt diſſormia, in q̄cūqꝫ
actione:neqꝫ q̄libet pars iuuat alterā ad reſiſtēdū ꝯrio re-
mitēti illaꝫ qualitatē:ſi. n. ſit. a. corpus q̄drupedale cuius
tres ptes ſint vnifor^r calide vt octo:⁊ vna calida vt ſex:⁊
frigida vt duo:⁊ ei applicet. d. corpus pedale vnifor^r hñs
frigiditatē vt ſeptē:⁊ cali^tē vt vnū, ſm ptē illā magis cali-
dā que vocet. b. tūc manife^m eſt ꝙ. a. aget in. d. ſm. b. par-
tē:⁊ pars illa calida vt ſex:que ſit. c. nō iuuat. b. tum q2 di-
ſtactū q2 nō ꝯriat ipſi. d. ꝙ ſi tātū creſceret po^a. d. vt poſ-
ſet agere in. b. ipſo manēte ꝯſilr q̄lificato:tūc. c. nō reſiſte-
ret ipſi:vt per ꝓ^m funda^m ſatis pōt ꝓbari. Sꝫ tūc vna pars
iuuat in agēdo aliā, tā in corpib° diſſor^bꝰ, q̄ vnifor^bꝰ q̄ñ il-
la pars, que in me^te agit, ꝓducit ſua actione tātū g^m quātū
alia eſſet nāliter ꝓductiua ſicuti. c. iuuabit. b. ad ꝓducēdū
tātā cali^tē quāte, ipm ē. c. eēt nāliter ꝓductiuū:⁊ nō vltra.
Silr q̄libet pars adiuuat aliā ad reſi^ēs, ei actiōi ꝑ quā ꝓ-
ducit q̄litas tāti ḡdus vt eēt ipſi° nāliter corrup^tiua. ¶ His
igit fundatis declarat Joā. ſuas ꝯnes:⁊ ꝓ, ꝙ iter diſſormia
inuicē approximata ſm extrema, poſſibilis eſt vera actio
⁊ reactio in qbuſdaꝫ caſib°:remotis oīb° extrinſecis:vt ſit
a. pedale calm vt octo vnifor^r:⁊. b. pedale vnifor^r frig^m vt
octo q̄ ſint eq̄lia in po^a. tūc mani^m eſt, ꝙ neutruꝫ poterit in
alteꝝ agē:reſi^a. n. vni° eſt eq̄lis actiuitati alteri°. Sꝫ ſi illis
inuicē approxi^tis, alteri extremo. a. addat vnū pedale hñs
cali^tē vt ſex:⁊ frigi^tē vt duo:⁊ alteri extremo. b. alterū pe-
dale frig^m iſti equalēs friditatis vt ſex:⁊ cali^tis vt duo:tūc
manifeſtuꝫ eſt, ꝙ vtrūqꝫ iſtoꝝ erit maioris po^e actiue, q̄
ipm ſit reſiſtitiue:in. a. eniꝫ agit caliditas vt octo:⁊ calitas
vt ſex. ſilr in. b. friditas vt octo ꝓmi pedalis:⁊ friditas vt
ſex ſcđi:q2 taꝫ friditas vt octo, q̄ vt ſex ꝯriant calitati vt
octo in. a. non reſiſtit aūt in. a. ipſi. b. calitas vt octo donec
in pte. a. calida vt octo itroducit frigi^tas vt duo:q2 fri^tas vt
duo nō ꝯriat cali^ti vt ſex:cū ſil' ſtent. ⁊ ſilr dđm de. b. re^u. a.
cū ḡ po^a vtri° ſuper reſi^am alteri°, mutuo iuicē agēt ⁊ patient:
¶ 2ª ei° ꝯ eſt ꝙ iter duo q̄ꝝ alteꝝ ē vnifor^e, ⁊ alteꝝ diſſor^e
pōt eē actio ⁊ reactio:ſic ſi ſit. a. vnū corp° bipedale, cui° ꝓª
medietas ime^te. b. ſit calida vt octo:⁊ po^e actiue vt vnū cū
dimidio in agēdo:alia vō medietas ſit calła vt 4^or que rō-
ne denſi^tis, vł multi^tis for^e ſit po^e, ipſa ē vt vnū cū dimidio:
⁊ ſit. b.

ꝛ ſit.b.corpus bipedale vniforme frigidū vt.8. taľr diſpo
ſitū in forma vt ſit potētie vt duo cū dimidio: q̄bus ſtan
tib⁹ pꝫ ꝯcl̄o.a.aget in.b.q2 po^a.a.eſt vt.3.reſiſtētia vͦo.b.vt
2.cū dimidio.b.etiā aget in.a.q2 tn̄ medietas calida vt.8.
ipſius.a.reſiſtet.b.per certū tp̄s donec.ſ. pars calida vt.8.
remittať:ꝛ ideo reſiſtētia ei⁹ſolū erit vt vnū cū dimidio:
ꝛ actiuitas.b.vt.2.cū dimidio:quare pꝫ ꝯcl̄o.

Marl. ¶ Hec opio mihi vĭ vt pace tanti hoīs dixerim nec ſibi cō
ſtare:nec ꝓncipijs nālib⁹:ꝛ q̄tū q̄dē ad ꝓmā ptē, in qua
cū Calcu^e ꝯſentit ſatis ſupius diximus: dū eius opinionē
examinarem⁹: q̄tū vͦo ad ſcđaꝫ videť tota imaginaria ꝛ
nulli⁹ vtilitatis:omne.n.qđ poniť in nā ꝓpter aliquē finē
ꝛ vtilitatē eſt ponēdū: vt pꝫ 2° phyſi.ꝛ in tota nāli phia:
ex hac reactione Marli.nulla ꝓuenit vtilitas in nā:nō.n.
mixtio nec aliq̄d aliđ: niſi vellemus dicere ꝙ quotieſcūq3
ſit mixtio:opꝫ vt miſcibilia diſponanť vt ipſe in ſuis caſi
bus diſponit qđ videť ridiculū: imo hoc etiā cōceſſo non
fieret mixtio:q2 nō durat actio ꝛ reactio niſi per paruum
quoddā tempus in ꝓncipio.ſ.vt pꝫ inſpicienti ſuos caſus.
Ipſuꝫ ꝑterea circūſtat argu^m illud difficile Calcu^m de pte
repaſſa:q2 cōtrarijs motib⁹ moueret. Cogiť ꝑterea nega
re vnūq̄dq3 tantū eſſe reſiſtiuū q̄tū ipm̄ eſt actiuū:qđ tn̄
cōcedit inſequēs Calcu^em. ¶ De etiā eius ꝯcl̄o p^a ſit falſa
ꝓbo hoc mō.a.agens in.b.agit tam per caliditatē vt.8.q̄
per caliditatē vt.6.ergo a fortiori per vtrāq3 reſiſtit. ꝯſña
probať:q2 vnūq̄dq3 nāliter eſt magis ſollicitū ꝓprie con
ſeruationi q̄ alterius corruptioni:cū ergo ex parte calida
vt.8.ꝛ calida vt.6.fiat vnū totale agens qđ agit in.b.con
trariū:videť ꝙ a fortiori hoc totum etiā reſiſtat cōtrario
agenti in ipſum. ¶ 2°.b.agens in.a.ſimul intendit corrū
pere caliditatē vt.8. ꝛ caliditatē vt.6. ergo illi vtraq3 cali
ditas reſiſtit.ꝯſña pꝫ: quia vnūq̄dq3 nāliter reſiſtit ꝯ̄rio;
qđ nititur ipſuꝫ corrūpere.añs vͦo ꝓbatur:q2 pono ꝙ tam
a.q̄.b.ſint tante potētie vt poſſint antea q̄ remittanť duo
gradus caliditatis in parte intenſa vt.8. diffundere ſuam
actionē in partē vt.6.qđ ſatis eſt poſſibile: ſicut ſi pti vt.6.
fiat additio corporis cōſimiľr qualificati ita vt creſcat ei⁹
potētia ipſo manente conſimiľr qualificato vt prius:ſicut
ipſe in ꝓmo ſuppoſito faciebat ad.a.tunc poterit agere ad
maiorē diſtātiā:ꝛ tunc quero:an pars.a.calida vt.6.reſi
ſtet ipſi.b. vel nō:ſi reſiſtit:ergo nō eſt neceſſariū vt prius
remittať pars calida vt.8.ſi ea que eſt vt.6.debꝫ reſiſtere:
ſi autē dicať ꝙ nō reſiſtet:ꝛ tamē.b.aget in ipſū:ergo erit
actio in illa parte ſine reſiſtentia:ergo in inſtanti vel infini
te velociter remittetť pars calida vt.6. ꝛ per cōſequēs ve
locius q̄ pars calida vt.8. ꝛ ſic nunq̄ poterit reſiſtere.b.
agenti:quia ſemꝑ erit remiſſior. De ſi dicať : tunc quidem
illam partē reſiſtere:quia in eā.b. ꝓducit intenſiorē gra
dum frigiditatis q̄ vt.2.ſed anteq̄ ad ipſā ꝑtingat actio
ipſius.b.nō reſiſtit:q2 nōdum ꝓducit gradum qui ſit ei cō
trarius cōtra totū.a.ſm̄ vtrāq3 eius partē eſt id qđ ꝓmo
ꝛ per ſe agit ꝛ etiā per ꝯſequens ꝓmo ꝛ per ſe reſiſtit:ergo
ſm̄ totū reſiſtit:ꝛ nō tn̄ ſm̄ vnā eius partem:aliter eſſet
magis ſollicitū ad agendū q̄ ad ſeipſum cuſtodiendum.
¶ 3°. Pars.a.calida vt.6.pōt adiuuare partem remotā
in agendo:ergo in reſiſtendo:q2 equalis eſt potētie per ipſꝫ
in reſiſtendo ſicut in agendo : ꝛ actio ipſius.b.eſt cōtraria
ipſi.a.q̄tū ad vtrāq3 partē:ꝛ ipſū intendens corrūpere:
anteq̄ etiā ad ipſum pertingat qđ pꝫ ex eo: quia ſtatiꝫ cū
ad partē remiſſiorē attingit:ipſā alterat : ergo anteq̄ ad
ipſum perueniat ipſi reſiſtit:aliter nulla eſſet rō : quare in
vniformib⁹ vna pars iuuaret aliā ad reſiſtendam. ¶ 4°.
ꝛ ſcđo:ſi hoc eſſet verū ꝙ.ſ.pars remiſſior nō iuuaret par
tem intenſiorē in reſiſtendo cōtrario agenti donec remit
tatur intenſior:ſequereť hoc incōueniens , ꝙ ſi eſſet aliq̄đ
ſubiectū vniformiter difformiter calidū: ita vt.v.g.in ex
tremo intenſiori ſit calidum vt.6.in extremo remiſſiori ca
lidū vt duo: ceteris oībus exiſtentib⁹ parib⁹ : facili⁹ erit
ipſū infrigidare ipſi applicādo agēs infrigidās extremo
intenſiori q̄ in extremo remiſſiori:qđ ex toto videť inopi
nabile. De aūt ħ ſequať ex hac pōne manifeſte appꝫ:ſi.n.
approximeť agens extremo remiſſiori, oēs ptes reſiſtent:
ſi aūt approxieť extre^o intēſiori ptes inte^re agenti tn̄, que
ſunt intēſiores reſiſtēt:ptes aūt remiſſiores nō adiuuabūt
in reſiſtēdo donec remittāť ille intēſiores ꝑ poſitionē:q̄re
pꝫ ꝯnes ei⁹falſas eē: eiſdē.n.rōnib⁹ ſꝫ 2° iꝑobari q̄b⁹ p^a.
¶ Fundamenta etiā q̄bus nitunť falſa ſunt : vt ex eiſdē
pōt colligi. Ad rōnes aūt q̄b⁹ ꝓbanť.rńdeť falſum eſſe ꝙ
illa incōueniētia ſequanť ex oppo^to ꝓmi fundamēti.alia.n.
fere oīa ab eo depēdent ꝛ ad p^m ꝓcedum⁹caſū:ꝛ ꝑterea di
cimus ꝙ.a.rōne caliditatis iuuat.b.ad reſiſtēdū.c. ſed ex al
tera pte rōne frigiditatis nocet ei: vñ qn̄ poniť ꝙ augeať.a.
in quātitate ꝛ po^a.dico ꝙ ſemꝑ magis iuuabit q̄to magis
augebiť rōne caliditatis:ꝛ tn̄ magis ei nocebit rōne frigiditatis
ꝛ cū īferť tūc aget in.b.q̄ ipꝫ in reſiſtēdo nō iuuat.negatur
ꝯſña.iuuat.n.per vnā q̄litatē:ꝛ per alterā agit: ſicut cōtin
geret ſi agētib⁹ inuicē igne ꝛ aq̄ eis approximareť aer:tūc
aer vtrūq3 iuuaret rōne alteri⁹ q̄litatis: ꝛ in vtrūq3 ageret
rōne alterius:vt ex ſe clarum eſt:ꝛ a phis conceditur.
¶ Siľr ēt negať ꝙ 2^m incōueniēs ſequať.ſ. ꝙ tepidū nūq̄
poſſet agē in aliqđ calidi⁹ vľ frigidi⁹ eo:ꝛ ad ꝓbationē dico
ꝙ q̄litates que ſiľ in eodē ſubto coexñdunť, inuicē per ſe
nō pugnāt:neq3 reſiſtūt:vel ꝯ̄riant, vt ſunt in illo ſubto: vñ
caliditas ꝛ frigiditas in tepido per ſe vt ſunt in eo nō inuicem
repugnāt neq3 reſiſtunt : ſed per accñs ꝛ ſcđario pñt bene
iuuare illud,in qđ agit tale tepidū:ipm̄ aliquātulū vigo
rando ꝛ fortificādo:hoc aūt iuuamētū eſt accñtale: vñ ad
argu^m qn̄ ꝓbať ꝯñā:q2 maior eſt reſi^a q̄ actiuitas ꝛc̄. dico
maior multo eſt virt⁹ actiua tepidi ꝑ frigiditatē agentis:q2
per ſe agit q̄ ſit iuuamētū qđ ꝑbet ei⁹ caliditas ipſi.b.in re
ſiſtēdo:q2 ſolū iuuat ꝑ accñs ꝛ ſcđario: vñ ꝑ ſe tn̄ reſiſtit
ca^tas vt.7.b.ꝛ iđ alia rō ē ħ ꝛ in cāu poſito in p^a ꝯne:ibi.n.
cali^tas.a.ꝑ ſe ꝯ̄riať tm̄ frigi^ti vt.8.q̄ frigi^ti vt.6.ꝛ ꝑ ſe vtrāq3
nitiť corrūpere:ꝛ iđ illi vtrūq3 p^e ꝛ ꝑ ſe reſiſtit:in tepido vͦo
frigi^tas ei⁹ nō ꝑ ſe agit in ꝓpriā ei⁹ cali^tē:nec ei ꝓmo ꝯ̄riať:
vel ipſā q̄rit corrūpere:ꝛ iđ ꝑ ſe ei nō reſiſtit. Et hec quo
breuius potuimus dicta ſufficiāt circa hāc opionē.

His igiť relictis deueniēdū eſt ad id qđ nob magis Opio
vĭ ꝯſonum rōni , ꝛ ꝓncipijs nālib⁹, ꝛ ſenſui ppa.
atq3 experiētie:regla.n.ꝛ experimētū ſmonū veroꝝ eſt, vt cō
cordēt ſenſatis: vñ diſcordātib⁹ rōne ꝛ ſenſu magis adhe
rendū eſt ſenſui q̄ rōni: q2 rō que ſenſui ꝯ̄dicit ſophi^ca eſt
ꝛ vana:ꝛ dimittere ſenſū ꝑꝑ rōnē nō arguit niſi intellect⁹
imbecillitatē:vt ꝛ Ari.ꝛ Com.ꝛ Auic.ꝯueniūt: cum igiť ex
vna pte ſint rōnes fortes negātiuū poſitiuā reactionem:ex
altera vͦo ſit ſenſus ꝛ experientie multe que manifeſte vi
denť oſtendere reactionē auctēs ꝑterea fere infinite Ari.
Cōmē.oīum antiquoꝝ expoſitoꝝ,tā grecoꝝ q̄ latinoꝝ,ꝛ
arabū ꝛ oīū fere medicoꝝ que expꝛeſſiſſime huic pti fauēt
nobis magis vĭ in hāc partē declinādū q̄ in aliam.
¶ Dico igiť ꝙ iuxta nālia ꝓn^a ꝛ viā peripathe^ticā credim⁹
eſſe necēū oīo ꝯcedere inter agētia nālia ꝛ patiētia verā ꝛ
poſitiuā reactionē,tā q̄tū ad q̄litates eiuſdē ꝯ̄rietatis q̄
etiā ad q̄litates diuerſaꝝ ꝯ̄rietatū:ꝛ nō ſolū inter agentia
que ſunt eque potētia ſed etiā inter ineque potentia:ꝛ non
ſolum hoc eſſe neceſſariū:ſed etiā reponi debere inter ea
ꝓn^a que a nāli demſtrari nō pñt per nobis notiora,ſed ſunt
per ſe nota ꝛ ſenſu atq3 expiētia cōprobata. ſi aūt aliq̄ ad
hoc dꝫ rō afferri,a ꝑori q̄dē ꝛ oſtēſiua nō alias adducem⁹
rōnes q̄ eas que Ari. 3° phy. ꝛ p^o ꝛ 2° de gñatione adducit

locis ſupius citatis. ❡ Pria eſt hec, oē agens qḋ eſt in po[a] mo[is] ſit dū agit repatiť, ⁊ dū mouet mouetť: ſed oē agens nāle eſt po[a] mo[is]. ğ oē agēs nāle in agendo repatiť. Rō eſt Ari. quā effugere volētes Galen[ici] ⁊ eiꝰ ſeqſces cauillari conanť ⁊ extorquere v̄ba Ariſt. eoꝝ tñ cauillos facile eſt cognoſcere, ſi qs v̄ba Ari. recte ꝑpēderit de qbꝰ ſupiꝰ multa. ❡ Scḋa aūt rō ex ipſo Ariſto. pōt elici hoc mō, oē agens qḋ agit ꝑ cōtactū: loquēdo de nāli contactu ſiť patiť ab eo in quo agit: agēs nāle agit ꝑ cōtactū: ğ ⁊c̄. Maior eſt Ari. 3° phy. t. c[o]. 16. ⁊ 17. ꝑ ēt de gnōne. nō. n. dī verꝰ, ⁊ nālis cōtacꝰ niſi inter ea inter que eſt mutua actio ⁊ paſſio: ſi. n. alterū tñ ageret ⁊ alterū tñ pateretť: talia nō mutuo ſe tangerent vt ibi dicit Ariſto.

❡ A poſteriori v̄o ⁊ deductione ad impoīe pōt ꝓbari rōnibꝰ ſuperius adductis ꝯ Galen[icos]: qꝛ ablata reactione auffertur mixtio: auferť rō reſpirādi in aīalibus: ⁊ multe alie nāles opationes, de qbꝰ ſatis ſuperqꝫ ſupiꝰ diſputatū eſt.

❡ Res hec mihi clariſſima: neqꝫ dubito qn hec fuerit ſnīa Ari. ⁊ antiquoꝝ phoꝝ: imo adeo res necc̄ia actio ⁊ reactio agētis ⁊ paſſi, viſa eſt antiqs pipatheticis: vt Alexā. voluerit eā a corpibꝰ celeſtibꝰ oīno nō poſſe abſolui: vt Simpli. declarat 3° phy. in expōne tex. cō. 8. qḋ ex effectu declabat ipſe, ⁊ ex varijs influxibꝰ coꝝ: ſi. n. duo aſtra ꝯrie virtutis cōcurrāt, dicit ipſe, videmꝰ ꝙ vtriuſqꝫ virtꝰ remittiť ⁊ debilitať: vt iuppiter ⁊ mars vl̄ ſaturnꝰ: vñ effectꝰ ab ipſis ꝓuenientes ſunt qſi mediū inter vtrūqꝫ: qḋ nō eēt niſi aliq̄ eēt inter ipſa actio ⁊ reactio: nō igiť vī nobis de hoc ꝯne dubitandū maxie in via pipathe[ca]: niſi velimꝰ ex toto negare mixtionē ex elntis: vt Tho. de garbo in ſua ſūma fecit.

Ad ar[gta] ❡ Quia aūt vt facile ex ꝓhabitis ꝑt cōprehēdi tota difficultas iſtꝰ rei ꝯſiſtit in ſolōne arg[tor] que fcā ſunt in ꝑ° qōnis pte: que ſi recte ſoluanť res clariſſima reddeť: ⁊ iō pro nr̄a facultate conabiť ea ſoluere. ꝑ[m] igiť arg[m] fuit tale: qꝛ ſupᵖoſito ꝙ ſit poīis reactio vera ⁊ poſitiua ſm eandē ꝯrietatē: tunc vī ſequi vnum, qḋ eſt cōtra totā ſcholaꝫ phicoꝝ, ꝙ. ſ. a ꝓportiōe eq̄litatis: vel minoris ieq̄litatis poſſit actio ꝓuenire: ſicuti clare eſt ſupius deductū ⁊c̄.

❡ Pro huius itaqꝫ argu[ti] ſolōne: ⁊ amplioris doctrine cāquedā nobis videnť pus annotāda: ⁊ ꝑ ꝙ qñ auctores dicunt ꝙ actio vel motꝰ ꝓuenit ex victoria agētis ſupra paſſū: ⁊ a ꝓpor[ne] maioris ieq̄litatis agētis ſupra paſſū: illud eſt intelligēdū, nō cōparādo po[am] actiuā agentis ad po[am] actiuā paſſi: ſed cōparādo po[as] actiuā agētis ad reſiſtētiā illius: imo oīs fere diuerſitas in motu ex ea ꝓportione inſurgit. ſ. ex ꝓpor[ne] po[e] actiue agētis ad reſi[am] paſſi: ex hac eniꝫ ſeqť ſucceſſio in motu: vt 4° phy. appet ex hac ēt velocitas ⁊ tarditas in motu: vt ex ſe notū eſt: in via maxime Ari. ſenſus igiť illiꝰ ꝓpōnis eſt ꝙ ex ꝓpor[ne] maioris ieq̄litatis po[e] agētis: vl̄ ex victoria po[e] actiue agētis ſupra reſi[am] paſſi ꝓuenit oīs actio: nec in hoc credo ſit aliqḋ dubiū.

❡ Scḋo aūt: qꝛ de reſi[a] ⁊ actiōe a nobis eſt nunc ſermo: iō de rōne ipſoꝝ aliq̄ videnť dicēda: qḋ ſint vnūqḋqꝫ ipſoꝝ ⁊ qūo dīanť: ⁊ de cōpatiōe ipſoꝝ adinuicē q̄ꝫ breuiori ſermone poterimꝰ. De actiōe tñ ⁊ paſſione, qḋ ipſa ſint: ⁊ qūo eoꝝ rōnes dīant: nūc nō diſputabimꝰ: ſatis. n. de ipſis, ⁊ ab Ariſto. diuerſis in locis: ⁊ ab auctore ſex ꝑncipioꝝ diſputatum eſt. Ad reſiſtentiā aūt cōuertemꝰ noſtrū ſermonē: de qua a nullo diſputatū eſt ꝑter q̄ꝫ a Petro pompo. Mant. qui fuit preceptor noſter: qui ſatis copioſuꝫ ſermoneꝫ de hoc habuit: ⁊ queſiuit nunqḋ reſiſtere ſit agere: vl̄ pati: vel aliqḋ aliud. ꝑmo. n. vī ꝙ reſiſtere ex vi vocabuli actioneꝫ importet: ex alia v̄o pte vī magis paſſioneꝫ iportare: quia ſemꝑ reſiſtētia attribuiť paſſo. multa hincinde adducūtur ab eo que pnt videri in eius tractatu: nos tñ ea que nobis videnť adducemꝰ. dico ğ ꝙ ſi de actiōe vel paſſione loqmur ꝓꝑe vt paſſio vel actio ꝓꝑe accipiunť: ⁊ vt dicūt aliquid poſitiuū: vel aliquā formā in ipſo agēte vel paſſo, ſic formal̄r reſiſtere neqꝫ agere eſt neqꝫ pati: formal̄r. n. ex ipſa reſiſtētia nulla forma, nullus effectꝰ ꝓuenit in agente vel paſſo, niſi ipedimētū ⁊ ꝓhibitio actionis ipſiꝰ agentis in paſſo: hoc aūt potiꝰ ꝑuatiuū qḋ eſt q̄ꝫ poſitiuū: ſicut ēt Ari. in libro de ſomno ⁊ vigilia dicebat, ſomnū eſſe priuationē quādaꝫ vigilie: qꝛ erat ligamentū ſeu ipedimētū ſenſuū cur nō exeant in ꝓprias opatiōes: dico tñ ꝙ in intellu reſiſtentie ſeu reſiſtere ſemꝑ icludiť rō actionis vel paſſiōis: neqꝫ. n. pōt eē reſiſtētia: neqꝫ intelligi, niſi intelligať aliqḋ agere in id qḋ reſiſtit. ⁊ huiꝰ rō eſſe pōt: qꝛ reſiſtētia in ſui formali rōne eſt ꝑuatiuū: ꝑuatio aūt ſemꝑ habitū ꝓſuppōit ⁊ per habitū itell̄r: ideo dico ꝙ actio ⁊ paſſio nunq̄ꝫ poſſunt abſolui ab itell̄u reſiſtētie: lꝫ aūt reſiſtere formal̄r ſit q̄dā potiꝰ ꝑuatio q̄ꝫ aliqḋ poſitiuū: illud tñ qḋ eſt cā reſiſtentie ſeu per qḋ reſiſtit ipſuꝫ paſſuꝫ eſt qḋ poſitiuū, ⁊ for[a] in ipo paſſo: calidū. n. frigido reſiſtit per ſuā caliditatē: vñ dico ꝙ ꝑciſe idē real̄r eſt per qḋ aliqḋ agit in alterū, ⁊ reſiſtit actioni alteriꝰ in ipſuꝫ agere conātis: loquēdo tñ de actiōe ſimplici ⁊ per ſe que nō eſt cōplicata ex diuerſis motuum generibꝰ: ſicut in pugna aīaliū accidit: alio. n. mēbro ⁊ inſtrumēto aliqñ conanť ſe defendere: ⁊ alio offendere: ſed hoc per accidens cōtingit: ſed in ſimplici alteratiōe ⁊ forſitan etiā in ſimplici motu locali per qḋ aliqḋ agit per idē etiā agēti in ipſuꝫ reſiſtit: ⁊ hoc poſſet inductione in oībus declarari, qḋ tñ nunc dimittimꝰ: qꝛ clariſſimū vī: ſi autem velimus actionē ⁊ paſſioneꝫ latiori vocabulo accipere: ita vt nō ſoluꝫ actio cōprehendat poſitiuā actionē, ſed etiam priuatiuā, quo mō etiā poſſumꝰ corruptionē actioneꝫ appellare: corruptio. n. nō dicit aliquā rem poſitiuam ſm ꝙ corruptio ſed ſolaꝫ forme priuationē: ſimil̄r forſitan ſe hꝫ diminutio: per diminutionē eniꝫ deꝑdiť aliqḋ prehabite quātitatis, nihil v̄o noui acquiriť: hoc mō poſſumus ipſaꝫ reſiſtentiā ad ꝑmū actionis reducere: eſt. n. quedaꝫ actio priuatiua: lꝫ. n. reſiſtens inquātū reſiſtens nō agat aliquid poſitiuū ꝓꝑie in ipſuꝫ agens: prohibet tamē q̄ꝫtū in ſe eſt actioneꝫ agentis: hoc igiť modo dicere poſſumus reſiſtentiam eſſe actionē: ⁊ reſiſtere agere ⁊c̄.

❡ Eſt vnum ꝑterea aduertenduꝫ ꝙ dupl̄r pōt aliqḋ alteri reſiſtere. ſ. ſimpl̄r vel ſm quid: ⁊ ſic duplex eſt reſiſtētia. ſ. ſimpl̄r ⁊ ſm quid: ſimpl̄r reſiſtere dicitur aliquid: qñ ex toto prohibet ⁊ impedit actionē agentis, ne ab eo altereť: ſm quid aūt quādo nō poteſt ex toto impedire vel prohibere actionē: ſed q̄ꝫtū pōt retardat: ⁊ hoc mō omne qḋ patitur reſiſtit: qꝛ vel ſimpl̄r reſiſtit ne in ipſuꝫ agať vel ſm qḋ: qꝛ ſaltiꝫ retardat actionē ipſius agentis: ⁊ ex hoc naſciť ſucceſſio ⁊ cōtinuitas in motu.

❡ Eſt ēt ꝯſiderādū ꝙ ſi cōparemꝰ reꝰ diuerſoꝝ reſi[am] ad actiuitatē (vt ita dicā) mihi vī dōm ħ mō ꝙ vnū ⁊ idem pōt dici altero magis ⁊ minꝰ actiuū: ſil̄r magis ⁊ minꝰ reſiſtitiuū cōpatū tñ ad diuerſa: ſi tñ velimꝰ cōpare actionē vniꝰ ad eiuſdē reſi[am]: ſic credo qḋ vnūqḋqꝫ ſit magis actiuū q̄ꝫ illud idē ſit alteri reſiſtitiuū: loquēdo de reſi[a] ſimpl̄r nō de reſi[a] ſm qḋ: qꝛ nūq̄ꝫ reſi[a] ſm qḋ abſoluiť a paſſione in ꝯrijs: vñ loquēdo de reſi[a] ſm qḋ qḋlꝫ eſt magis reſiſtitiuū q̄ꝫ actiuū: paſſuꝫ. n. in vera actiōe ⁊ motu nunq̄ꝫ penitꝰ talē reſi[a] pōt ꝓuari donec moueť, quātūcūqꝫ ſit debile: cū. n. nō amplꝰ reſiſtit ceſſat motꝰ ⁊ actio ⁊ ſucceſſio: ſed ſenſui eſt manifeſtū de reſi[a] ſimpl̄r qḋlꝫ eſſe magis actiuū q̄ꝫ reſiſtitiuū: videmꝰ. n. multa que pnt agere in alterū: nec pnt tñ ex toto ſe defendere, qn ⁊ ipſa patianť ab eodē: ħ aūt non eſt alia de cā: niſi qꝛ agēs nāle fortiꝰ eſt in agēdo q̄ꝫ in reſiſtēdo: ⁊ iō lꝫ ex toto nō poſſit alteri reſiſtere, pōt tñ in ipſꝫ agere. Nō tñ credimꝰ ħ ſꝑ de nec̄itate in oī actiōe ꝯtingere.

ꝙ .ſ. paſſiuʒ poſſit reagere in ipm agēs: lʒ.n. vnūqðqʒ agēs nāle ſit minꝰ reſiſtiuū ꝙ̃ actiuū: nō tñ neccīuʒ eſt ꝙ reſiſtentia agētis ſp ſit minoꝛ ꝙ̃ actiuitas paſſi: vñ ſi capillus in ignē ꝓijciat magnū, nō credimꝰ ignē a capillo refrigerari: qꝛ lʒ ignis ſit minꝰ reſiſtiuꝰ ꝙ̃ actiuꝰ: nō tñ eſt minꝰ reſiſtiuꝰ ꝙ̃ capillus actiuꝰ: ꝛ hoc ꝯtingit ex magna ꝓportione taʒ in q̃titate ꝙ̃ in gradu: quā hʒ magnꝰ ignis ſupra capilluʒ. neqʒ in h ꝯuenimꝰ cū his qui volūt ꝙ ſp īter ꝯria ſit actio ꝛ reactio: vt vī voluiſſe Heiſber: nam h vī eſſe ꝯriū Ari. p̊ de gnōne ꝛ corruptiōe locis ſepiꝰ adductis. vbi ait, ꝙ ſi alterū elemētoꝝ tm̄ agat ꝛ alteruʒ tm̄ patiat: tūc nō ſit mixtio: ſʒ alterꝰ gñatio ꝛ alterꝰ corruptio: ecce ꝙ cōcedit Ari. aliqñ ita accidere vt vnū elemētuʒ tm̄ agat ꝛ nihil repatiat. Si aūt nō ſit exceſſus valde magnꝰ agentis reſpcū paſſi, tūc ſemꝑ ſeq̄ reactio patiētis ad agens: ꝛ hoc ea de cā accidit: qꝛ agens nāle fortius eſt in agendo ꝙ̃ ſit in reſiſtendo: ꝛ ideo lʒ ipſuʒ agens vincat ipſuʒ paſſum: cum hoc tñ etiā quodāmō vincitur ab eodem.

¶ Sed hic diceret forſitan aliq̄s: hoc qð a nobis dictū eſt, valde eſt dubiū ꝛ q̄ſi videnꝰ inuicē pugnare nr̄a dicta: nō eniʒ vī rōnale neqʒ veriſile: ꝙ agēs eodē inſtr̄o agat ꝛ reſiſtat: loquēdo in ſimplici alteraꝯ: ꝛ ſm vltꝰ ſui poſſe agat ꝛ reſiſtat: ꝛ tñ ꝙ fortꝰ agat ꝙ̃ reſiſtat reꝰ eiuſdem. ſi.n. aq̄ in ignē ꝑ fridītatē agit, ꝛ eidē ēt ꝑ fridītatē reſiſtit: nō videt imaginabile q̃uo poſſit aqua fortius agere ꝙ̃ reſiſtere.

¶ Hoc dubiū vī mihi tangere punctū ꝛ eſſentiā iſtiꝰ mãe: Jō r̄ndeo ꝛ dico, ꝙ lʒ ideʒ ſit inſtr̄m quo agēs agit ꝛ reſiſtit, aliā tñ rōneʒ hʒ ſm ꝙ agit, ꝛ aliā ſʒ ꝙ reſiſtit: agēs.n. inq̃tū agēs ſolū hʒ rōnē actꝰ vt ēt fatet Ari. 3ᵒ phy. inq̃tū aūt reſiſtēs dicꝰ rōnē actus iūncti poꝯ: ſemꝑ.n. in rōne reſiſtendi icludit reſpectꝰ ad alterū, qð hʒ nāʒ agēdi in ipſuʒ: hoc vō nō accidit niſi ex poꝯ que actu agētis ſil eſt coiuncta: vñ agētia in mãlia que carēt oī poꝯ nō dicunꝰ ꝓpe reſiſtere: celuʒ.n. nō reſiſtit igni vel iſtis iſerioribꝰ: qꝛ ab eis pati nō pōt: ꝛ iō ſp reſiꝯ ſe tenet ex ꝑte paſſi vt ſupius etiā diximꝰ: ꝛ iō in reſiꝯ duo icludunꝰ, rō actꝰ: nō.n. reſiſtit niſi qð eſt in actu: qð vō eſt in pura poꝯ, vt mã p̊ꝰ nulli reſiſtē pōt, ſm ꝙ eſt in poꝯ: icludit ēt rō poꝯ in ipſa: qꝛ ſp, ſe tenet ex ꝑte paſſi: rō aūt patiēdi eſt poꝯ: ꝛ vt diximꝰ, in rōne reſiſtentis ſp icludit reſpectꝰ ad alterū, qð hʒ nāʒ vt in ipſum agat: hoc aūt nō ꝯuenit niſi ga eſt in poꝯ ad illð. His itaqʒ ſuppoſitis facile appet ſolō ad dubitationē: tū.n. agens inquātuʒ agēs ſimplr̄ hēat rōneʒ actꝰ: ꝛ ois ꝑfectio ꝛ fortitudo rei ſit rōne actꝰ: imꝑfectio vō ꝛ debilitas rōne poꝯ ꝛ in rōne agētis vt ſic nulla icludat rō poꝯ: in rōne aūt reſiſtentis ſp ſit ānexa rō poꝯ: ideo nō eſt mirū ſi vnūqðqʒ fortius ſit in agēdo ꝙ̃ in reſiſtēdo: lʒ vno ꝛ eodem inſtr̄o ſil agat ꝛ reſiſtat: ꝛ hāc credimus fuiſſe clarā ꝛ indubitatā opionem peripatheticoꝝ illuſtriū: ꝛ maxīe Ari. 3ᵒ phy. ꝛ p̊ de gnōne. vbi nullaʒ aliā reddidit cāʒ, cur paſſiuʒ poſſit reagē in ipſʒ agēs: niſi ga agēs ſil eſt in actu ꝛ poꝯ: lʒ nō reꝰ eiuſdeʒ: ꝛ iō ēt ſoluʒ attribuit reactionē agēti qð cōicat in mã cū paſſo: dicit.n. ꝙ agit inq̃tuʒ eſt in actu: patiꝰ vō inq̃tū eſt in poꝯ: q̄ſi dicat inq̃tū eſt in actu vincit. ſʒ inq̃tū hʒ poꝯ ānexam vincit ꝛ ſupat ab ipſo paſſo: ꝛ hac rōne non pōt tantū reſiſtere q̃tū agit: ex poꝯ.n. annexa debilitaꝰ ꝛ iꝑficiꝰ: ꝛ iō vbi nō ē poꝯ ibi ēt nō ē reſiꝯ neqʒ reactio: vt in his q̄ mã carēt.

¶ Sed dices ſtatim cōtra inter intelligentiā ꝛ orbē eſt reſiſtentia ꝛ tñ carent mã: vt pʒ ex Auer. 4ᵒ phyſi. in digreꝯ cōmenti. 71. ꝛ pluries alibi, quare vī falſum qð dictuʒ eſt.

¶ Ad hoc breuiter r̄ndeo ꝙ in celo ꝓpe nō eſt reſiſtētia: ſʒ reſiſtētia ibi dī equoce: vt ſupius.n. diximꝰ reſiſtere nō eſt aliud niſi conari q̃tū poſſe eſt ipedire ꝛ ꝓhibere actioneʒ agētis: hoc aūt nō ꝯtigit in celo: celuʒ.n. tantū appetit nālr̄ moueri q̃tū intelligētia appetit mouere: ibi.n. nō eſt ꝯrietas neqʒ ipedimētū: ſed dī reſiſtētia in celo: vt 2ᵒ de celo. cō. 63. ꝛ. 71. ab Auer. pōt colligi: qꝛ inter celuʒ ꝛ intelligētiā talis eſt ꝓportio: ꝙ celuʒ eſt aptū tali ꝛ tāto motu ab intelligentia moueri: ꝛ intelligētia pōt ipſʒ tanto ꝛ tali motu mouere nec velociori poſſet ipm mouere: que ꝓportio ſi variaret nō poſſet itelligētia mouere aut tardiꝰ moueret: nō aūt ꝙ celuʒ ꝯriet ꝛ quærat ipedire vl ꝓhibere ne moueat ab intelligētia ſicut in iſtis iſerioribꝰ accidit: q̄re alio mō eſt reſiſtencia hic, ꝛ ibi ꝛ ſm aliam rationeʒ: vt ſatis in via peripathetica eſt manifeſtum.

¶ Jſtis aūt ſic declaratis facilis eſt ſolō ad p̊ꝯ rōnē q̄ fuit Bur. lʒ iudicio meo ab ipſo nō recte ſoluat. dico igitur ꝙ nō eſt incōueniēs ꝙ duo agētia quoꝝ vtrūqʒ ſit eq̄le alteri in agēdo ꝛ eq̄le alteri in reſiſtēdo, inuicē agāt ꝛ patiāt: ſilr̄ ꝙ duo quoꝝ alterū in agēdo ſit potētius altero, ꝛ in reſiſtendo: ꝛ tñ a debiliori patiatur: niſi ſit exceſſus magnus vniꝰ ad alterū, vt ſupra fuit declaratuʒ: nec tñ ex hoc ſeq̄ ꝙ a ꝓportiōe minoris ineq̄litatis vel a ꝓportione eq̄litatis ꝓueniat actio. Et rō eſt: qꝛ actio ꝓuenit vt ſupius declaratū fuit ex ꝓportiōe actiuitatis agētis ad reſiſtētiā patiētis: nō aūt ex ꝓportiōe actiuitatis vniꝰ ad actiuitateʒ alterius: ꝛ in vtroqʒ aūt caſu ſi cōparaꝰ actiuitas vniꝰ ad reſiſtētiaʒ alterꝰ inuenieꝰ ꝓportio maioris ineq̄litatis, ꝛ iō pōt eſſe actio ꝛ reactio: qꝛ qðlʒ ipſoꝝ eſt minꝰ reſiſtiuū ꝙ̃ ſit actiuū, ꝛ ideo reſiſtentia vtriuſqʒ pōt ſuperari ab eorūdē actiuitate: vt pʒ diligenter ꝯſideranti ea que dicta ſunt ſuperius: ꝛ hec ſatis ſint q̃tū ad p̊mā rōnem.

¶ Unū tñ eſt hic aduertenduʒ ꝙ q̄n dicimus aliq̄d magis eſſe actiuū ꝙ̃ reſiſtiuū hoc in bono ſenſu itelligēdū: qꝛ .ſ. aliq̄d pōt in aliud agere ipm corrūpendo: ꝛ tñ non pōt ex toto illiꝰ reactionē ꝓhibere: ꝛ adeo reſiſtere vt ab eo ēt nō patiaꝰ ꝛ altereꝰ: hoc aūt diximꝰ: qꝛ formalr̄ reſiꝯ, vt ſupꝰ diximꝰ eſt q̄d ꝑuatiuū: actio vō poſitiuū: cōiter vō ſolet teneri maxīe a calculatoribꝰ: vt pʒ p̊ traꝯ de inteꝯ ꝛ remiſſione a Calcuꝯ. ꝑuatiuū nō eē poſitiuo cōpabile ſʒ magis ꝛ minꝰ. ꝛ iō in bono ſenſu dcā nr̄a itelligaꝰ vt diximus.

¶ Ad argꝰ aūt difficile Calcuꝯ a varijs diuerſimode ſolituʒ eſt r̄ndere: ego vō ita r̄ndere: p̊ ſupponēdo vnuʒ, qð ex Ari. ꝛ Com. colligi pōt 5ᵒ phy. circa p̊nꝯ. ꝛ 7ᵒ ēt eiuſdem in p̊nꝯ. ꝙ in quolʒ motu eſt reꝑire aliq̄d cui p̊mo ꝛ ꝑ ſe talis motꝰ attribuiꝰ ſiue de mouēte loq̄mur, ſiue de eo qð mouetꝰ: tale aūt eſt id qð mouere vel moueri dī, nō per aliud aliq̄d illi accñs, vel qꝛ eiꝰ aliq̄ ꝑs moueat vel moueaꝰ: ſed ipm totū per ſe p̊ mouere vel moueri dī: ſicut.n. v.g. dicimꝰ ꝙ aer circūdans corpa nr̄a nos ꝯtinue alterat vt eſt mediꝯ coꝝ mīa: ꝛ maxīe Auicē. p̊ꝰ p̊mi. c. de etatibꝰ. ꝛ 2ᵒ ēt pximē ſilr̄ aqua piſcem: nō tñ eſt credendū ꝙ totꝰ aer p̊ ꝛ per ſe, ꝛ quelʒ ēt eiꝰ ꝑs ſil nos alteret: ita vt tota ſphera aeris ad h cōcurrat: hoc.n. nō eſt veriſile: cū.n. ſit tāte q̃ꝯ in tanta ꝓportiōe nos excedit qð cito nos corrūperet, ſi aer ſm totū ageret: ſʒ eſt aliq̄ certa ꝛ determiata aeris portio que p̊mo agit in corpꝰ nr̄m: ita ꝙ ſm ſe totū agit: ꝛ ſm q̄lʒ eiꝰ ꝑtē: ſilr̄ ēt dico ꝙ ſi ſit aliq̄d qð in aerē agat ſicut exempli gr̄a aliq̄s ignis vt puta candela nō eſt totꝰ aer qui ab igne candele patiꝰ: nō.n. eſt veriſile qð parui ignis actio per totaʒ ſpherā aeris poſſit diffūdi: ſʒ eſt q̄dā ꝑs aeris que p̊ ꝛ ſʒ ſe totā patiꝰ ꝛ alteraꝰ: ꝛ qð diximꝰ in iſtis in oī etiā alio motu eſt reꝑire: in oibꝰ.n. eſt reꝑire qð p̊mo mouet ꝛ qð p̊mo moueꝰ: ꝛ tali ꝓprie ꝛ p̊mo motꝰ attribuiꝰ: ꝑtibꝰ aūt non attribuiꝰ motꝰ niſi ſecūdario ea rōne qua ſunt in toto ſiue rōne totius: vnde ga totū mouet vel moueꝰ: ideo ēt quelʒ eius pars mouet vel moueꝰ. Hoc aūt ſuppoſito r̄ndemus ad argꝰ hoc mō: qñ.n. infert Calculato: poſita reactiōe poſitiua: ſeq̄ ꝙ aliq̄d ſil duobꝰ motibꝰ ꝯrijs aliq̄d moueretꝰ: ꝛ duas ꝯrias q̄litates ſimul intēderenꝰ in eodē ſubto: hāc ꝯñtiā negamꝰ: ꝛ ad ꝓbationē ꝯcedimꝰ caſum ꝛ dicimꝰ ꝙ tñ ea q̄litas intēdiꝰ in .c. ꝑte que eſt .a.b. introducta ꝛ ſʒ eā Ad 2ᵐ

moueť. Et rõ eſt: q2 totũ ipſm.a.eſt illõ qd̃ p̃mo ꝛ per ſe vẽ
agere in.b.ꝛ totũ ẽt.b.reagere vĩ in.a. ptes võ tam.a.q̃ȝ.b.
agũt actiõe toti⁹ ꝛ ei⁹ motu mouẽť: cum igiť totũ.a. p̃mo ꝛ
p̃ncipaľr reſpiciat ipſm.b.ꝛ p̃ᵃ ꝛ p̃nˡⁱ intẽtione agat in.b.q̃lȝ
etiã ei⁹ pars p̃ ꝛ p̃ncipaľr aget in.b.q2 nõ agũt niſi actione
toti⁹.ꝛ ħ eſt veritas de pte repaſſa ipſi⁹.a.q̃ȝ de parte non
repaſſa: vñ ſiľr ps nõ repaſſa p̃ ꝛ p̃ncipaľr reſpicit ipſm.b.ꝛ
ipſm alterare ꝛ corrũpe nitiť ꝛ in ipſm p̃ncipaľr agit: nõ re/
ſpicit aũt aliã ptẽ repaſſaȝ.ſ.ipſm.c.niſi ſcd̃ario: ſed.b.cõ/
uerſo ſe hȝ: q2 p̃ ꝛ p ſe reſpicit.c.ptẽ repaſſaȝ atq3 in ipſam
p̃ ꝛ p̃ncipaľr agit: q2 ei obycit tanq̃ȝ p̃ᵐ ꝛ adeq̃tũ eius paſ/
ſuȝ vel mo¹ᶜ.nõ.n.ei⁹ actio diffundiť niſi per.c.ptẽ: cũ igiť
pars nõ repaſſa.a.nõ reſpiciat.c. niſi ſcd̃ario.b.võ p̃ ꝛ p ſe
reſpiciat ipſm.c.ide eſt ꝙ.b.põt alterare.c.ꝛ ꝓpriã q̃litateȝ
in ipſm introducere: alia aũt ps.a.vel agere nõ põt vľ ſi põt
agere: actio tñ ipſi⁹.b.ꝑualet ꝛ ſupat actionẽ alteri⁹ ptis.a.
ꝛ ideo põt.b.ꝓpriã q̃litatẽ per certũ tp̃s in.c. introducẽ cõ/
ſeruare ꝛ intẽdere: ꝛ alia ps.a.que nõ eſt repaſſa ħ efficere
nõ põt: ſed tantũ reſiſtit q̃ñtũ põt actioni ipſi⁹.b.ꝛ adiuuat
c.ptẽ: vñ lȝ aliqñ ita ſit ꝙ ps nõ repaſſa ſit maior ꝛ poten/
tior q̃ȝ ſit.b.paſſuȝ ſimpľr ꝛ abſolute: q2 tñ.b. p̃ ꝛ p̃ncipaľr
agit in.c. Et ps alia nõ repaſſa.a.non agit niſi ſcd̃ario in.c.
ideo hac rõne actio.b.ꝑualet actiõi alteri⁹ ptis: ꝛ hac rõne
reddiť ea potẽti⁹: ꝛ ob id ea q̃litas ſolũ intẽdiť in.c.q̃ a.b.
in ipſm eſt introducta: ideo argᵐ nihil cõcludit vt pȝ.

¶ Sȝ diceret aliqs, hoc nõ vĩ veriſiľe ꝙ.a. reſpiciat p.b.paſ/
ſuȝ: ꝛ.c. ꝓpriã ei⁹ ptẽ ſcd̃ario: vnũqd̃qȝ.n. vĩ magis intẽtuȝ
ꝓpe ꝯſeruationi, q̃ȝ deſtructioni alteri⁹.cũ igiť p actionẽ.a.
in.c.ei⁹ ptẽ ꝯſeruet.a.in ꝓpria ei⁹ nã ꝛ diſpõne, vĩ qd̃ p̃us
debeat reſpicere.c.ptẽ q̃.b.paſſuȝ. ¶ Ad hoc rñdeť negã/
do argᵐ. Et rõ eſt: q2 alteratio.c.fcã eſt ab ipſo.b.ꝛ ab ipſo
cõſeruatť: ꝛ dũ ſtat.b.in ꝓpo vigore, difficile eẽt eã remo/
uere: q2 vt dixi ab eo ꝯſeruaťť ꝛ foueť: debilitato võ.b. vel
ex toto corrupto.b.faciľr diſpõ in.c.introducta põt remoue
ri: q2 nõ adeſt aliqd qd̃ ipſaȝ ꝯſeruet: ꝛ iõ p̃us nitiť agere ꝛ
deſtruere poᵉˢ ꝛ vtutẽ.b.q̃ȝ reducere.c.ad p̃ᵃˢ forᵃᵐ. dixi aũt
debilitato vľ corrupto: aliqñ.n.ſil ꝛ ſemel corrũpiť q̃litas
que eſt in paſſo: ꝛ que eſt ab ipſo introducta in ipſm agens: ꝛ
hoc ideo q2 lȝ agẽs aliq̃ mõ repatiať a paſſo: tñ multo ma
gis agit ꝛ alterat paſſuȝ q̃ȝ ab ipo altereť: vñ ꝯtiᵉ decreſcit
ꝛ diminuiť virt⁹ ipſi⁹ paſſi magis q̃ȝ virt⁹ agẽtis: ꝛ eius ꝓ
portio reᵐ agẽtis. vñ tandẽ ad illũ gᵐ deuenit vt nõ ampli⁹
poſſit in ipſm agẽs reagere: ꝛ tunc ſil ipſm remittiť ꝛ q̃litas
ab ipſo in agẽs introducta. ¶ Sȝ diceret aliqs hec rñſio ap/
parentiã aliquã hꝫet in agente cognoſcẽte: ſȝ in nãli agente
qd̃ nõ cognoſcit nõ vĩ ħ veriſiľe. ¶ Ad ħ rñdit Com. ex intẽ
tiõe The. 12. metaᶜ. ꝯᵗᵒ.18. ꝙ nã lȝ nõ cognoſcat: dirigiť tñ a
virtute cognoſcente in eius operationib⁹: quare pȝ ſolo ad
ſcd̃m argumentũ qd̃ eſt difficilius in hac mã.

Ad 3ᵐ ¶ Ad 3ᵐ võ arᵐ qd̃ pot⁹ ẽ p̃oris ꝯfirmatio rñdeť ꝙ in illo
corpe meᵒ ex actiõe vtriuſq3 introduceť q̃dã q̃litas remiſſa
media q̃ vtriq3 cõpata hꝫbit rõnẽ alteri⁹ ꝯrij, rõne cui⁹ po
terit in vtrũq3 agere: ꝛ rõne ei⁹ ſaluabiť actio ꝛ reactio, vt
ex ſe clarũ eſt: declinabit tñ ad lat⁹ agẽtis fortioris vt pȝ.

Ad 4ᵐ ¶ Ad 4ᵐ aũt argᵐ negať illa ꝯña, ita vľr.ſ. ꝙ nullus agens
data reactiõe poſſit pfecte ſibi paſſuȝ aſſiľare. Et aliqñ qdẽ
hoc ſit verũ ꝯcedim⁹.ſ.ꝙ agẽs pp reactionẽ nõ põt pfecte
aſſiľare paſſuȝ ꝛ ipſm reducẽ ad illũ gᵐ ſub q̃ ipſȝ erat añq̃ȝ
inciperet actio: imo ħ expꝛẽſſe ꝯcedit Ari. vt põt facile elici ex
ei⁹ dictis 4ᵒ de gñõne aialiuȝ loco ſepi⁹ citato. Qȝ tñ ħ ſit
vľr ꝛ ſp verũ negam⁹: vñ ſi virt⁹ ipſi⁹ paſſi tãta ſit, vt in to/
tuȝ agẽs ꝛ qualȝ ei⁹ ptẽ poſſit reagere, ꝛ ipſi⁹ qualitatẽ re/
mittere: ſic dico ꝙ nunq̃ȝ poterit perfecte paſſuȝ aſſiľare, ꝛ
ipſm ad gᵐ ſummũ reducere: niſi ab alio agẽte adiuueť: q2
nihil agit vltra ꝓpriũ gᵐ vt argᵐ ꝓbat: nec ẽt tenemus ꝙ
aliqd ſeipſm poſſit ab intrinſeco alterare: qd̃ ſi nõ totũ agẽs

repatiať ꝛ remittať: ſȝ aliq̃ ei⁹ ps remaneat in ꝓpa nã: vt
in caſu ſcd̃i argᵘ declarať tũc poterit paſſuȝ ſibi perfecte
aſſiľare ꝛ deducere ad gᵐ ſummũ: pars.n.que non repatiť
alias ptes repaſſas reducet ad p̃mã diſpõnẽ: ꝛ ħ mõ paſ/
ſuȝ pfecte agẽti aſſiľabiť. Hec igiť ſint ſatis q̃ñtũ ad hanc
ptẽ huius mãe de actione.ſ.ꝛ reactione que contingere ſo/
lent in motu alterationis.

Sed pro pfecta hui⁹ rei reſolũne adhuc q̃daȝ pauca De motu locali.
ſunt dicẽda de alys gñib⁹ mot⁹.ſ. motu lo/
cali ꝛ augmẽtationis: nõ.n.ſoluȝ voluere peripathetici re/
actiões eẽ in motu alterationis, ſȝ in quolȝ gñe motus q̃ñ
mouẽs ꝛ motũ in mã cõicant: vt licet videre in locis iã ſe/
pius citatis apud Ari. Auer. ꝛ alios: ſed maxᵉ 4ᵒ de gñõne
aialiuȝ.ca.3. vnde dicebat Auer. ꝯᵗᵒ.53. p̃mi de gñõne. ꝙ ſi
agẽs nõ cõicat in mã cũ paſſo nõ patiť ab eo eodẽ mõ ſȝ
quẽ agit, ꝙ ſi cõicat in mã neċe eſt vt patiať: in quolȝ ergo
agẽte ħ verificať. difficile aũt eſt videre qũo ħ verũ ſit in
augmẽtatiõe ꝛ in motu locali maxĩe elĩtoꝝ, vt ſupius ẽt
tetigim⁹: ꝛ eo difficili⁹ ꝙ nihil inuenim⁹ de ħ dcm añ nos:
de augᵗᵉ qdẽ ſimpľr nihil: de motu aũt locali indicio qdeȝ
meo ꝑfecte: nã ȝ de eo motu locali q violentus eſt ex toto
ſicut qñ vaſa ꝯ ſeinuicẽ lata ambo frãgunť ꝛ duo glady,
ꝛ ſilia: qui qdeȝ mot⁹ ſimpľr ſũt ab extrĩſeco, p̃ores multa
dixere: de motu aũt ſimplici qui ꝓuenit ab ipſis elĩtis ni/
hil ſcriptũ eſt: vtputa ſi ſit aliqd̃ cõpoſituȝ ex igne ꝛ terra:
ita vt aliquãtuluȝ vincat ignis ꝛ trahat ſecũ terrã: nunqd
terra poſſit reagere actiõe poſitiua in ipſm ignẽ. nã ſi qdeȝ
hoc negauerim⁹ vĩ ꝯ Ari. ꝛ Com. locis ſepi⁹ citatis. tunc.n.
in motu elĩtoꝝ nõ poterit eẽ reactio. Si võ cõceſſerimus
terrã reagere in ignẽ: tunc nõ poſſum⁹ effugere ħ incõue/
niẽs, ꝙ ideȝ moueбiť motib⁹ ſimpľr ꝯrijs.ſ.aſcẽſu ꝛ deſcẽ
ſu: ignis.n.inq̃ñtũ ſecũ terrã trahet ſurſuȝ aſcẽdet: ſi aũt re/
patieť a terra, deorſuȝ ab ipſa traheť qd̃ vĩ penit⁹ eẽ ipoᵇˡᵉ:
res videť habere aliquã difficultatẽ, vt claruȝ eſt.

¶ De augmẽtatione ẽt nõ vĩ qũo poſſim⁹ ſaluare ꝙ agẽs
qd̃ auget ipſm repatiať. cũ.n.tale agens ſit duplex: vt 2ᵒ de
aia.ꝛ p̃ de gñõne pȝ: p̃ᵐ qdeȝ aia vľ ei⁹ virt⁹: 2ᵐ võ ꝛ inſtru
mẽtale ſit calor nãlis, neq3 aia, neq3 calor nãlis videnť di
minui dũ augẽt nrm̃ corp⁹. qũo ḡ ſaluabim⁹ verã ꝛ poſi/
tiuã reactionẽ in motu augmẽtatiõis ſm idem gen⁹ mot⁹.

¶ Res hec nob ſatis vĩ difficilis, eo magis qd̃ de ħ a p̃ori/
bus aut paꝝ aut nihil eſt ſcriptũ: nos tñ ea que nobis vi/
denť nũc recitabim⁹ poti⁹ ꝓbabiľr q̃ȝ obſtinate aſſerẽdo:
nos ſp ſubyciẽdo caſtigatiõi coꝝ q acutioris ꝛ ſanioris ſũt
iudicy. Dicim⁹ igiť breuiter relictis difficultaᵗᵇ⁹ q̃ poſſent
hĩcinde adduci circa p̃ñteȝ mãȝ ꝛ deueniẽdo ad punctũ:
p̃mo q̃ñtũ ad motũ localeȝ q ab elĩtis nãľr ꝓuenit ꝙ ſi re/
cte volum⁹ ꝯſiderare ſepe videbim⁹ in eo rõnẽ reactiõis
ſaluari. ¶ Pro cui⁹ declaratiõe eſt p̃ aduertẽduȝ ꝙ non ſp
inter agẽs ꝛ patiẽs eſt actio ꝛ reactio, vt ex intẽtiõe Ariſt.
declarauim⁹ ſupi⁹: aliqñ.n. agẽs adeo ſupat ꝛ vincit paſſuȝ:
vt lȝ paſſuȝ q̃ñtũ põt ei reſiſtat, nõ tñ põt reagere in ipſuȝ
agens: vt declarãt ẽt qdã ex recẽtiorib⁹. vñ ad ħ vt fiat re/
actio: opȝ vt inter agẽs ꝛ paſſuȝ ſit determiata q̃dã ꝓportio.

¶ Scd̃o eſt aduertẽduȝ ꝙ inter mixta ex elĩtis eſt duplex
drĩa: quedã.n.ſũt mixta pfecta q̃ ſũt reducta ad vnã forᵐᵃᵐ
pfectã, ꝛ ipſa elĩta ſũt taľr ordĩata ꝛ diſpoſita, vt vnum ſe
hẽat tãq̃ȝ forᵃ alys dominãs: alia võ lȝ in actiõe illius aliq̃
mõ iſti reſiſtãt, nõ tñ ꝯ opanť neq3 eſt pugna inter ipſa: vñ
videm⁹ ꝙ oĩa iſta in motu recto eodẽ mõ moueнť q̃ elĩm
qd̃ in eis dñať ꝛ in eis hȝ rõnẽ forᵉ, moueť: neq3 in tali mo
tu eſt in eis pugna poſitiua: lȝ ſit priuatiua: eſt.n.aliq̃ in eis
reſi⁹: vñ dñt ſolũ talia mixta ab elĩto ſimplici in motu ꝙ
illa duplicẽ hñt reſiſtentiã intrinſecã ꝛ extrĩſecã: elĩtuȝ võ
extrinſecaȝ tñ vt põt hẽri 4ᵒ phyſi. in motu igiť iſtoꝝ: q2
elĩta alia ex toto ſubſunt dominio elementi dominantis:

ideo in eis nõ apparet reactio manifeſta. Alia autem ſunt mixta impfecta vt ſunt multa ex methcorologicis/in qb° nõ eſt pfecta mixtio/nec ſunt pfcte ad vniuꝫ vni° elñti re dacta ⁊ ad vnã formã: iõ inter elñta ex qb° talia mixta cõ/ ponunt̃ eſt ↄtinua pugna: vt docet Ariſ. ⁊ Com. p metheo. vbi declarãt q̃re hꝫ mixta tranſuerſalr mouent̃ ſm plim: dicit.n.q ex pugna que eſt iter pn° ex qb° cõponũt̃ in mo uendo/neqꝫ pñt ſimplr aſcẽdere, neqꝫ ſimplr deſcẽdere: ſed mouent̃ ſm trãſuerſum: talis aũt mot° trãſuerſalis eſt mot° cõpoſit° ex nãli ⁊ violẽto. ſ. ex aſcẽſu ⁊ deſcẽſu: quoꝝ vnũ eſt illis elñtis nãle: alterũ vo violẽtũ. in iſtis g̃ appet manifeſta reactio: q2 vnũ elñtũ nõ adeo vincit aliud vt oĩ actiõe ipm ſpoliet. inq̃tũ g̃ iſta trãſuerſalr mouent̃ pzim aſcẽdũt ⁊ pzꝫ deſcẽdũt: vincit tñ vel aſcẽſus vel deſcẽſus ſm q leuia vel grauia ſũt potẽtiora. ex h igit̃ pꝫ qualr in vero motu locali/q fit a motore p ſe ⁊ itrinſeco/poſſit acci/ dere reactio. nõ tñ ſeqt̃ q moueat̃ motib° ↄ̃rijs vt clarũ eſt: nõ.n. ſimplr talis motus põt dici aſcẽſus, neqꝫ ſimplr deſcẽſus: ſꝫ quodãmõ eſt q̃ſi mediũ ex vtroqꝫ cõpoſitũ.

De motu augmẽta/ tionis. ❡ De augmẽtatiõe ẽt dicim° ſilr q in ea põt rõ reactionis ſaluari ſi recte iſpiciam° ſꝫ difficili° aliquãto vbi pmo eſt cõſiderãduꝫ q ſicut teſtis eſt Ariſt. z° de aĩa. t. cõ. 45. ⁊ p de gñõne. t. cõ. 53. ⁊. 4. qñ dicim° agẽs in agẽdo repati non hoc eſt itelligẽdum de q̃lꝫ agẽte ẽt corporeo/q repatiat̃ a paſſo/loquẽdo de reactiõe ſm ideꝫ gen° mot°. ſꝫ.n. oẽ mo/ uens corporeũ ſit mobile: nõ tñ eſt neceſſe q eodeꝫ motu moueat̃ quo mouet: pm.n. mouẽs in q̃lꝫ motu ſꝫ corporeũ ſit: nõ tñ neceſſe eſt vt dũ mouet eodẽ gñe mot° moueat̃ q̃ mouet: celũ.n. qḋ eſt pm alterãs ipꝫ nõ eſt alterabile q̃uis alio motu ſit mobile: agẽs aũt vlt̃m ⁊ pxim eodẽ gñe mot° eſt mo° q̃ mouet: ⁊ tale in agẽdo a paſſo repatit̃: vñ Ari. p de gñõne loco nup citato ſic ait: pm qdẽ mouẽs in motu ni/ hil pbibet eẽ imo°. in qbuſdã aũt eſt ẽt neceſſe: vltm autẽ ſemp mouẽ motũ. in actiõe aũt pm qdeꝫ ipaſſi°: vltm vo ẽt ipm patiẽs. que vba Cõ°m exponẽs ſic ait. Et ſciẽdũ eſt q agẽs bipartitũ eſt ſicut mouẽs: qm in vtroqꝫ eſt pm ⁊ vltm: ⁊ ſicut pm mouẽs poſſi° eſt vt ſit imo°: ⁊ poſtremũ mouens neceſſe eſt vt ſit motũ. ⁊ paulo infra ſic ait. ⁊ cũ in h eſt/qm qḋcũqꝫ agẽs/cui° mã nõ fuerit eadeꝫ cũ mã patiẽtis/neceſſe eſt vt nõ patiat̃ ab illo eo mõ ſm quẽ agit: ⁊ qḋcũqꝫ agẽs habuerit eãdeꝫ mãꝫ neceſſe ⁊ vt patiat̃ ⁊c̃. vera igit̃ rõ re/ actiõis attẽdi dꝫ penes agẽs vltm ⁊ imediatũ. vnde in fine illi° tex. dicit Ari. q cib° in faciẽdo ſanitatẽ repatit̃ a corpe: q2 eſt vltm ⁊ tangẽs. ❡ Eſt ẽt z° ↄſiderãduꝫ q in augmẽ/ tatiõe/rõ efficiẽtis ⁊ motoris pp̃e aĩe ⁊ vtuti ei° attribuit̃ tanq̃ pmo ⁊ pn° agẽti: calori aũt nãli tãq̃ agenti inſtrũali ⁊ ſcḋario/vt declat Ari. z° de aĩa. t. cõ. 49. ⁊. 50. in nullo autẽ iſtoꝝ pt ſaluari reactio in eodẽ gñe mot°: neqꝫ.n. aĩa neqꝫ calor nãlis/dũ augẽt diminuũtur. Et rõ eſt: q2 aĩa qdẽ eſt in tali motu pm mouẽs qḋ nõ eſt neceſſe moueri in mouẽdo: calor ẽt nãlis dũ auget corp° ipm nõ diminuit̃: ſed ex tali augmẽto poti° vigorat̃ ⁊ creſcit. Sꝫ hic eſt ↄſiderãduꝫ q calor iſte pmo qdẽ ⁊ p ſe mouet motu alterationis. calefa/ cit eniꝫ ⁊ digerit: vt z° de aĩa pt colli loco citato: ⁊ alterãdo auget ⁊ nutrit: vñ ſꝫ ipſe ſit oĩuꝫ iſtoꝝ motuũ pn°m: nõ tñ in eis eodẽ mõ ſe hꝫ. naꝫ in alterãdo nõ idiget aliq̃ extriſeco quo mediãte agat: ſꝫ tñ ſeipſo agit: q2 calor eſt: ⁊ q2 ẽt nã/ lis. in nutriẽdo aũt ⁊ augẽdo idiget aliq̃ extrinſeco quo nu/ trit ⁊ auget. ſ. cibo vel nutrimẽto: qḋ tñ pus alterat ⁊ cõco/ quit ⁊ ab eo ẽt in eo motu repatit̃ ſm motũ tñ alteratõis: nutrimẽtuꝫ.n. in pn° eſt ↄ̃riuꝫ ⁊ fine ſile: vt declarat̃ z° de aĩa. ſed q2 ſeipſo ſolo nõ põt nutrire vt dixim° vel augere ipꝫ aĩal: ſꝫ alio extriſeco idiget ad h vt nutriat vel augeat. idiget.n. nutri°: qḋ qdẽ rõne q̃ eſt in po° ps mẽbri nutrit: rõne q̃ eſt ſub a actu q̃ta auget: vt z° de gñõne declat Ari. vñ z° de aĩa loco ſupius citato dicebat. Eſt aũt quo aĩa alit duplex. ſ. nutrimẽtuꝫ: ⁊ q2 nutrimẽtũ neceſſe eſt digeri ⁊ cõ/ coqui qḋ non fit niſi auxilio caloris: iõ neceſſe ẽt eſt calor. ⁊ pmo de gñõne dicebat Com. q neceſſe eſt vt faciẽs ptes ma/ gnitudis ſit mag°: q2 vnũqḋqꝫ fit a ſuo ſili ſm actũ: in hoc ẽt ſenſu credim° Auer. ⁊ Ari. loquutos. 8. phy. tex. ⁊ cõ. 51. ⁊ 4° celi. t. ⁊ cõ. z 4. qñ dixerũt motũ augmẽtationis ab ex/ trinſeco motore tãq̃ a ppinq̃ motore ↄuenire rõne. ſ. nu/ trimẽti: ab itrinſeco aũt tanq̃ a motore remoto a calore. ſ. nãli qui eſt in re q̃ auget̃: q2. ſ. calor nãlis nõ auget niſi me diãte nutrimẽto qḋ ab extriſeco aduenit: q2 vt docet Ari. in z° de gñõne nõ fit vera augmẽtatio niſi p aduẽtuꝫ noue mãe: q2 igit̃ nãlis calor agit augẽdo me° nutrimẽto ſili ẽt mõ repatit̃ quo agit. ſ. me° nutri°. dũ.n. nutrimẽtũ cõco/ quit̃ dũ ↄuertit̃ in ſubaꝫ mẽbri dũ poſtea ẽt pfecte aſſilat̃ ipſi mẽbro/ↄti° multe ipſi° ptes reſoluũt̃ in vaporẽ ⁊ mul te in ſupfluitates: ⁊ ita ↄti° diminuit̃ ei° q̃titas dũ corpus nr̃m auget. ſub h igit̃ re° inq̃tũ. ſ. nõ niſi ipſo me° aĩa ⁊ ca lor nãlis agit in motu augmẽti hꝫ quodãmõ rõnẽ vltimi agẽ tis ⁊ imediati ipſi paſſo: ⁊ hac rõne in ipſo ſaluat̃ reactio vera in motu augmẽti. ❡ Sꝫ dicet aliqs his ẽt oĩbus cõ/ ceſſis adhuc nõ ſaluat̃ vera reactionis rõ in motu aug°: nõ.n. nutrimẽtuꝫ pp̃e dr̃ diminui/cũ nõ ſit aĩatũ. ❡ Ad h dr̃/q nõ ſoluꝫ diminuit̃ q̃titas nutrimẽti añ ↄuerſionẽ ei°: ſꝫ poſt ↄuerſionẽ ẽt in ſubaꝫ nutriti/ qñ iaꝫ factũ eſt aĩatũ. nõ.n. fcã ↄuerſione ſtatĩ qeſcit calor: ſꝫ poſtea ẽt in ipſum agit pfecte ipm aſſimilãdo: vt ab Auic. põt colligi p° pmi. ca° de hũorib° ⁊ ſũma ẽt de vtutib°, vbi de vtute nutritiua agit: nõ.n. nutrimẽtũ ↄuerſuꝫ ſtatĩ eſt ẽt ſile ex toto mẽbro in mõ ſube ⁊ multis accñtib°. dũ igit̃ pfecte aſſilat̃ multe ipſi° ptes reſoluũt̃: ⁊ ita ↄtinue diminuit̃. hec oĩa vt pba/ bilr dicta accipiãt̃ nõ renuendo iudiciũ eoꝝ q nobis plus ſapiũt: que ſufficiãt q̃tũ ad mãꝫ de reactiõe ad laudẽ eius qui ab omni reactione ⁊ mutatione liber omnia mouet ⁊ regit ⁊ oĩum bonoꝝ eſt prima cauſa.

❡ Explicit qḋ de reactiõe edita ab ex°me doctore dñõ Vi/ ctore trincauello Veneto necnõ Calculationũ liber ma/ giſtri Raymundi Suiſeth. Nouiter ipreſſa Venetijs ere ac ſollerti cura heredũ q. dñi Octauiani Scoti ciuis Mo doetienſis ac ſocioꝝ. Anno a dñica incarnatiõe Milleſi/ mo qngenteſimo vigeſimo. decimo kal. Aprilis. Ad lau dem eius qui maior eſt omni laude.

Regiſtrum.

a b c d e f g h i k l m Omnes ſunt Terni preter l qui eſt Quaternus.

BIBLIOTECA NAZ. ROMA VITTORIO E...

LABORATORIO L. [illegible]
VIA DEL BOSCHETTO [illegible] - ROMA
[illegible]